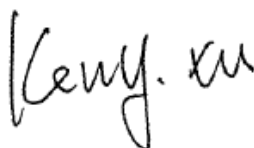


TEST REPORT

Application No.: SZCR2512005363TL
Applicant: UAB Teltonika Networks
Address of Applicant: K. Barsausko st. 66, Kaunas LT-51436 Lithuania
Manufacturer: TELTONIKA NETWORKS, UAB
Address of Manufacturer: K. Baršausko st. 66, LT-51436, Kaunas, Lithuania
Factory: TELTONIKA EMS, UAB
Address of Factory: Paluokesos st. 11, LT-33133, Molėtai, Lithuania
Equipment Under Test (EUT):
EUT Name: 5G Wi-Fi 6 Router, LTE Wi-Fi 6 Router
Model No.: RUTC54, RUTC16 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: TELTONIKA
FCC ID: 2AET4RUTC54
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-12-04
Date of Test: 2025-12-08 to 2026-03-01
Date of Issue: 2026-04-14

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.


Keny Xu
EMC Laboratory Manager



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

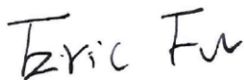
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 2 of 230

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-04-14		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Declaration of EUT Family Grouping:

Model No.: RUTC54, RUTC16

Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on assembly variant, RUTC16 is constructed with fewer components and a different M.2 mobile modem, when compared to RUTC54.

Based on this, all test items shall be tested mainly with RUTC54, while RUTC16 shall be used for Radiated Spurious Emissions Below 1GHz and Conducted Emissions at AC Power Line (150kHz-30MHz).



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
7 Radio Spectrum Matter Test Results	13
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	13
7.1.1 E.U.T. Operation	13
7.1.2 Test Mode Description	13
7.1.3 Test Setup Diagram	14
7.1.4 Measurement Procedure and Data	14
7.2 Radiated Emissions which fall in the restricted bands	19
7.2.1 E.U.T. Operation	19
7.2.2 Test Mode Description	19
7.2.3 Test Setup Diagram	20
7.2.4 Measurement Procedure and Data	21
7.3 Radiated Spurious Emissions Below 1GHz	36
7.3.1 E.U.T. Operation	36
7.3.2 Test Mode Description	37
7.3.3 Test Setup Diagram	37
7.3.4 Measurement Procedure and Data	38
7.4 Radiated Spurious Emissions Above 1GHz	51
7.4.1 E.U.T. Operation	51
7.4.2 Test Mode Description	51
7.4.3 Test Setup Diagram	52
7.4.4 Measurement Procedure and Data	53
7.5 Conducted Peak Output Power	64



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 5 of 230

7.5.1	E.U.T. Operation	64
7.5.2	Test Mode Description	64
7.5.3	Test Setup Diagram	65
7.5.4	Measurement Procedure and Data.....	65
7.6	Minimum 6dB Bandwidth	66
7.6.1	E.U.T. Operation	66
7.6.2	Test Mode Description	66
7.6.3	Test Setup Diagram	66
7.6.4	Measurement Procedure and Data.....	66
7.7	Power Spectrum Density	67
7.7.1	E.U.T. Operation	67
7.7.2	Test Mode Description	67
7.7.3	Test Setup Diagram	67
7.7.4	Measurement Procedure and Data.....	67
7.8	Conducted Band Edges Measurement	68
7.8.1	E.U.T. Operation	68
7.8.2	Test Mode Description	68
7.8.3	Test Setup Diagram	69
7.8.4	Measurement Procedure and Data.....	69
7.9	Conducted Spurious Emissions	70
7.9.1	E.U.T. Operation	70
7.9.2	Test Mode Description	70
7.9.3	Test Setup Diagram	71
7.9.4	Measurement Procedure and Data.....	71
8	Test Setup Photo	72
9	EUT Constructional Details (EUT Photos)	72
10	Appendix.....	73



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4 General Information

4.1 Details of E.U.T.

Power supply:	RUTC54: Power by switching adapter Model No.: ASSA67A-120200 Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12V, 2.0A RUTC16: Power by switching adapter Model No.: SJ-12020033 Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12V, 2.0A
Cable(s):	RUTC54: DC cable from Adapter 200cm unshielded; 1 pcs GPS antenna 295cm unshielded; LAN cable 156cm unshielded; 3 pcs WIFI antenna 151.5cm unshielded; 4 pcs Mobile antenna 150cm shielded. RUTC16: DC cable from Adapter 200cm unshielded; 1 pcs GPS antenna 295cm unshielded; LAN cable 156cm unshielded; 3 pcs WIFI antenna 151.5cm unshielded; 2 pcs Mobile antenna 150cm shielded.
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz 802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11 802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	RP-SMA Connector Dipole Antenna
Antenna Gain:	ANT1&ANT2: 3dBi
Cable Loss (for RF conducted test):	0.8dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Conducted Peak Output Power	$\pm 0.4\text{dB}$
Minimum 6dB Bandwidth	$\pm 0.3\%$
Power Spectrum Density	$\pm 0.4\text{dB}$
Conducted Band Edges Measurement	$\pm 2.7\text{dB}$
Conducted Spurious Emissions	$\pm 2.7\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 8 of 230

4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 EMC Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 9 of 230

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-12-16 2025-12-15	2025-12-15 2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03 2026-02-24	2026-03-02 2027-02-23

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-12-17 2025-12-16	2025-12-16 2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-12-17 2025-12-16	2025-12-16 2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2024-12-14 2025-12-13	2025-12-13 2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Radiated Spurious Emissions Below 30MHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21 2026-03-21	2026-03-20 2027-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2025-08-29	2027-08-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2027-02-01
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 10 of 230

Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04
---------------	-----	-----	-----------	------------	------------

Radiated Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04 2026-02-02	2026-03-03 2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-12-17 2025-12-16	2025-12-16 2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-12-17 2025-12-16	2025-12-16 2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-12-17 2025-12-16	2025-12-16 2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2024-12-14 2025-12-13	2025-12-13 2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2024-12-14 2025-12-13	2025-12-13 2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04 2026-02-04	2026-03-03 2027-02-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04 2026-02-04	2026-03-03 2027-02-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 11 of 230

				2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04 2026-02-03	2026-03-03 2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2025-03-03 2026-02-02	2026-03-02 2027-02-01

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03 2026-02-14	2026-03-02 2027-02-13



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is a dipole antenna with RP-SMA connector. The best case gain of the antenna are ANT1&ANT2: 3dBi.

Directional gain = $G_{ANT} + \text{Array Gain}$

For power spectral density (PSD):

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB = $10 \log 2 = 3$ dB; Directional gain = $3 + 3 = 6$ dBi

For power:

Array Gain = 0 dB for $N_{ANT} \leq 4$; Directional gain = 3 dBi

Antenna location: Refer to external & internal photos



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Wade Li

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



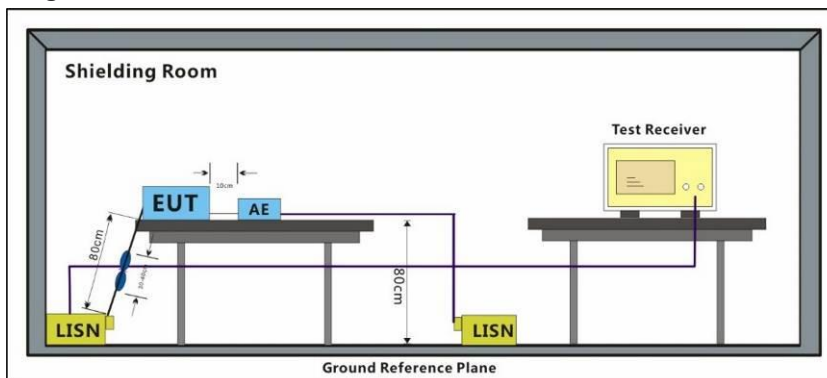
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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 Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

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

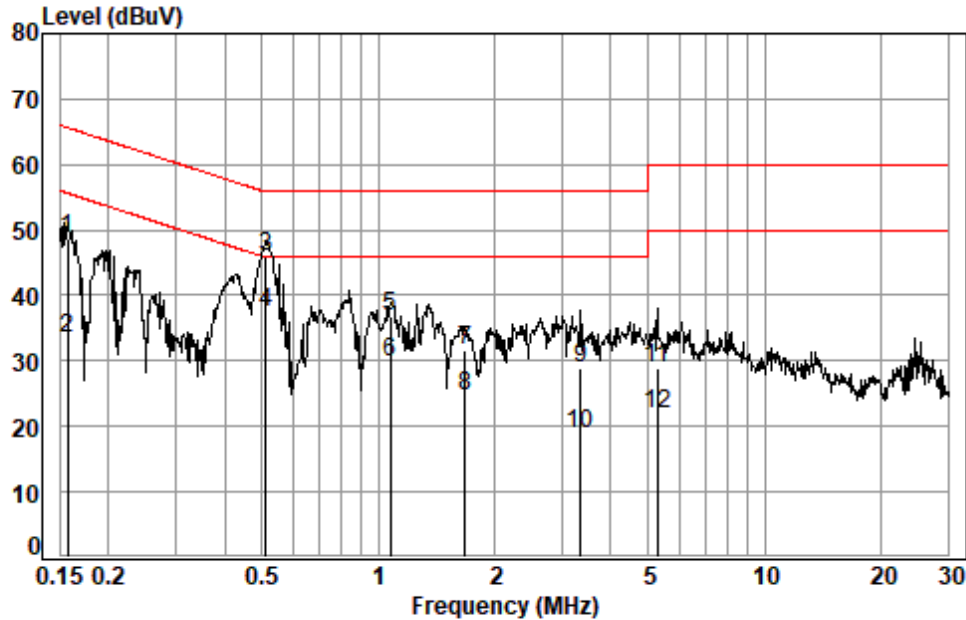
SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 15 of 230

RUTC16

Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05363TL/05364TL
Test mode: 00

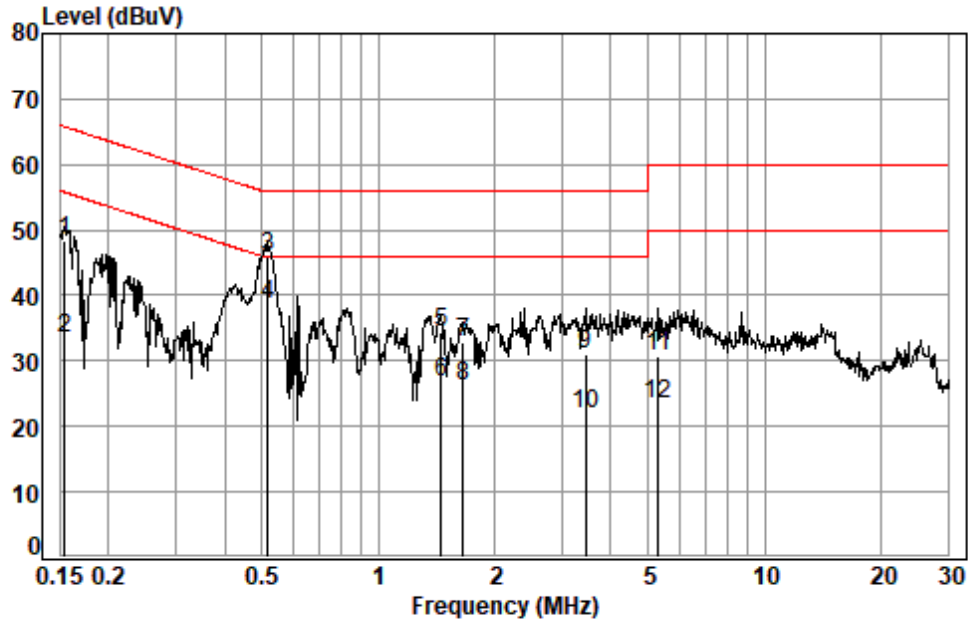
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.06	9.63	38.86	48.55	65.60	-17.05	QP
2	0.1573	0.06	9.63	23.65	33.34	55.60	-22.26	Average
3 *	0.5128	0.09	9.64	36.32	46.05	56.00	-9.95	QP
4 *	0.5128	0.09	9.64	27.70	37.43	46.00	-8.57	Average
5	1.0767	0.11	9.68	26.88	36.67	56.00	-19.33	QP
6	1.0767	0.11	9.68	20.06	29.85	46.00	-16.15	Average
7	1.6802	0.12	9.71	21.93	31.76	56.00	-24.24	QP
8	1.6802	0.12	9.71	14.96	24.79	46.00	-21.21	Average
9	3.3458	0.13	9.83	18.97	28.93	56.00	-27.07	QP
10	3.3458	0.13	9.83	8.91	18.87	46.00	-27.13	Average
11	5.2770	0.14	10.03	18.84	29.01	60.00	-30.99	QP
12	5.2770	0.14	10.03	11.58	21.75	50.00	-28.25	Average



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05363TL/05364TL
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.06	9.63	38.53	48.22	65.78	-17.56	QP
2	0.1540	0.06	9.63	23.72	33.41	55.78	-22.37	Average
3 *	0.5182	0.09	9.63	36.26	45.98	56.00	-10.02	QP
4 *	0.5182	0.09	9.63	29.04	38.76	46.00	-7.24	Average
5	1.4562	0.12	9.69	24.42	34.23	56.00	-21.77	QP
6	1.4562	0.12	9.69	16.99	26.80	46.00	-19.20	Average
7	1.6625	0.12	9.70	22.92	32.74	56.00	-23.26	QP
8	1.6625	0.12	9.70	16.42	26.24	46.00	-19.76	Average
9	3.4356	0.13	9.84	21.16	31.13	56.00	-24.87	QP
10	3.4356	0.13	9.84	12.04	22.01	46.00	-23.99	Average
11	5.3050	0.14	10.06	20.64	30.84	60.00	-29.16	QP
12	5.3050	0.14	10.06	13.22	23.42	50.00	-26.58	Average



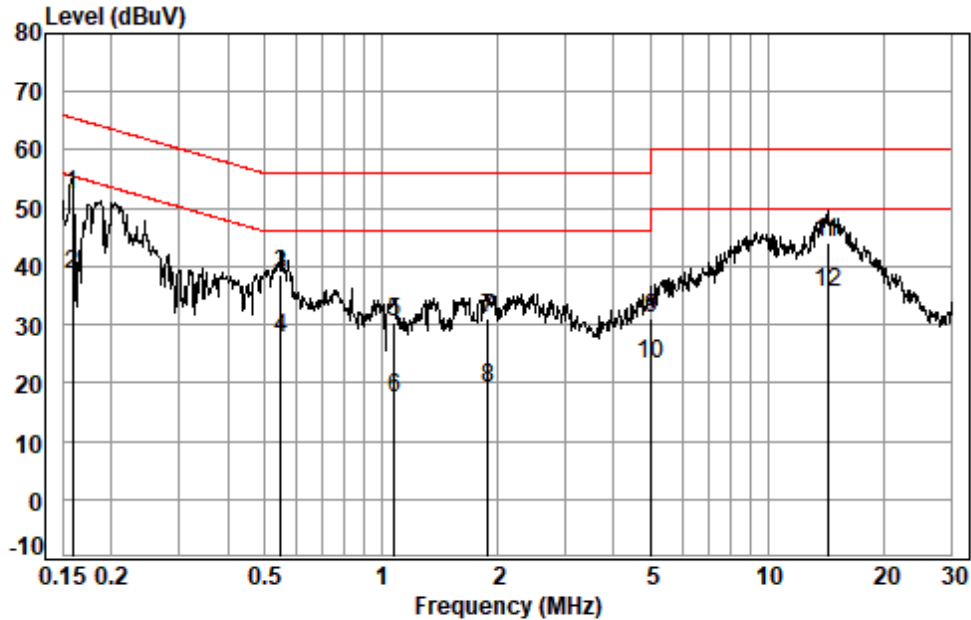
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

RUTC54

Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05364TL/05363TL
Test mode: 00

		Cable	LISN	Read	Limit	Over	
Freq		Loss	Factor	Level	Level	Line	Remark
MHz		dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1590	0.05	10.18	42.01	52.24	65.52	-13.28 QP
2	0.1590	0.05	10.18	28.21	38.44	55.52	-17.08 Average
3	0.5493	0.08	9.57	28.90	38.55	56.00	-17.45 QP
4	0.5493	0.08	9.57	18.00	27.65	46.00	-18.35 Average
5	1.0824	0.10	9.58	20.60	30.28	56.00	-25.72 QP
6	1.0824	0.10	9.58	7.62	17.30	46.00	-28.70 Average
7	1.8879	0.11	9.58	21.22	30.91	56.00	-25.09 QP
8	1.8879	0.11	9.58	9.32	19.01	46.00	-26.99 Average
9	5.0046	0.13	9.66	21.29	31.08	60.00	-28.92 QP
10	5.0046	0.13	9.66	13.36	23.15	50.00	-26.85 Average
11	14.2882	0.26	9.89	33.77	43.92	60.00	-16.08 QP
12 *	14.2882	0.26	9.89	25.48	35.63	50.00	-14.37 Average

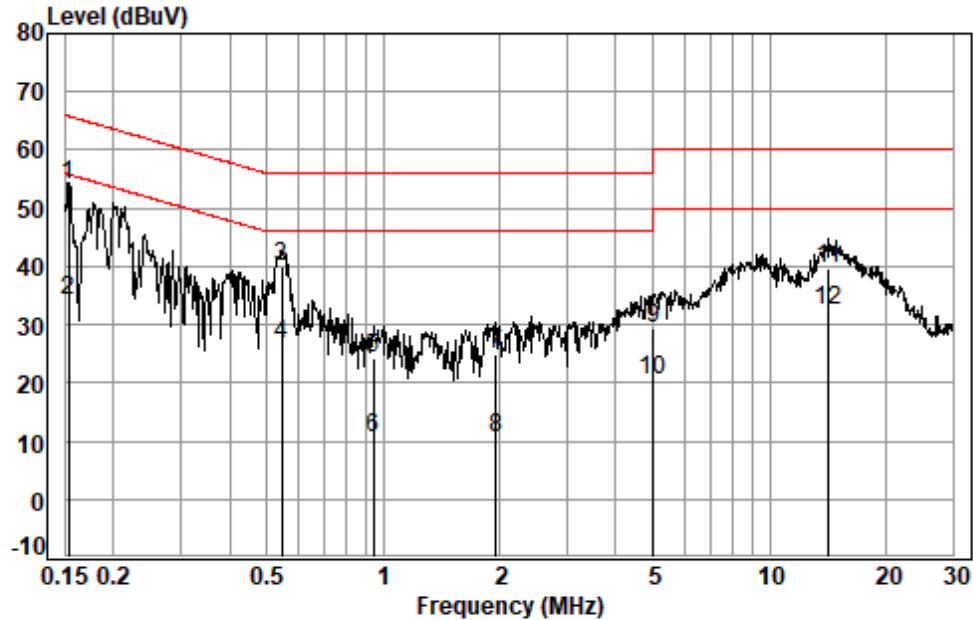


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05364TL/05363TL
Test mode: 00

		Cable	LISN	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1532	0.05	10.15	43.90	54.10	65.82	-11.72 QP
2	0.1532	0.05	10.15	23.79	33.99	55.82	-21.83 Average
3	0.5464	0.08	9.69	30.36	40.13	56.00	-15.87 QP
4	0.5464	0.08	9.69	16.84	26.61	46.00	-19.39 Average
5	0.9431	0.10	9.56	14.43	24.09	56.00	-31.91 QP
6	0.9431	0.10	9.56	0.97	10.63	46.00	-35.37 Average
7	1.9593	0.11	9.55	15.12	24.78	56.00	-31.22 QP
8	1.9593	0.11	9.55	0.91	10.57	46.00	-35.43 Average
9	5.0046	0.13	9.56	19.53	29.22	60.00	-30.78 QP
10	5.0046	0.13	9.56	10.86	20.55	50.00	-29.45 Average
11	14.2127	0.26	9.81	29.61	39.68	60.00	-20.32 QP
12 *	14.2127	0.26	9.81	22.44	32.51	50.00	-17.49 Average



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Mihawk Li

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 55.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

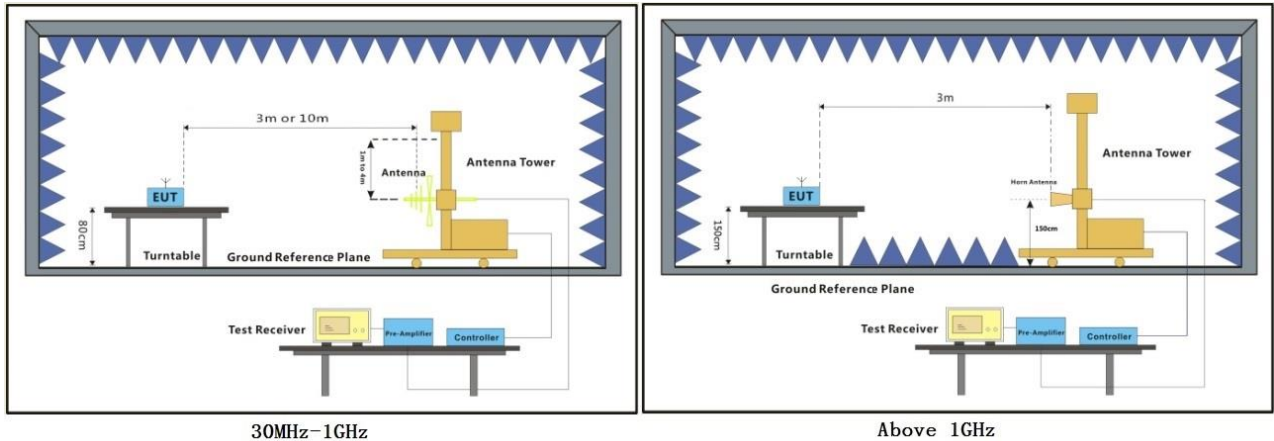


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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.

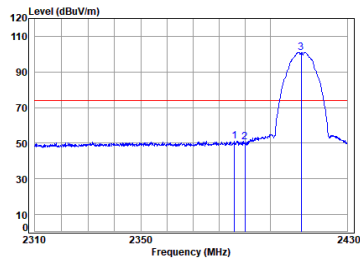
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Remark: Only retain the data of the worst-case 11b and 11n and 11ax(RU) modes.

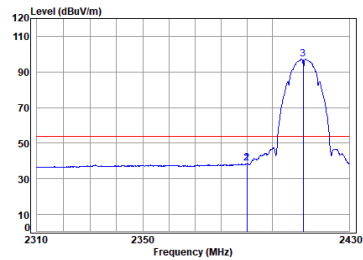
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.978	6.82	27.44	31.54	48.47	51.19	74.00	-22.81	Peak
2	2390.000	6.83	27.46	31.54	47.95	50.70	74.00	-23.30	Peak
3 pp	2412.000	6.91	27.52	31.54	98.06	100.95	74.00	26.95	Peak

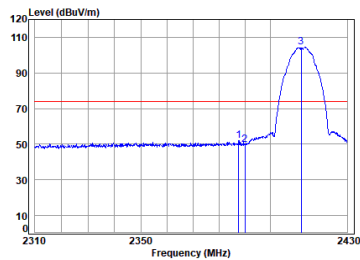
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	31.54	35.81	38.56	54.00	-15.44	Average
2	2390.000	6.83	27.46	31.54	35.81	38.56	54.00	-15.44	Average
3 pp	2412.000	6.91	27.52	31.54	94.49	97.38	54.00	43.38	Average

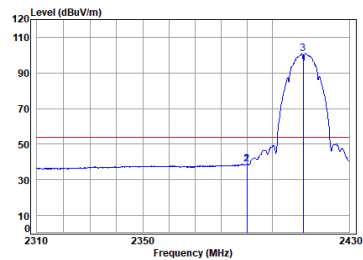
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.670	6.82	27.45	31.54	49.50	52.23	74.00	-21.77	Peak
2	2390.000	6.83	27.46	31.54	47.02	49.77	74.00	-24.23	Peak
3 pp	2412.000	6.91	27.52	31.54	101.51	104.40	74.00	30.40	Peak

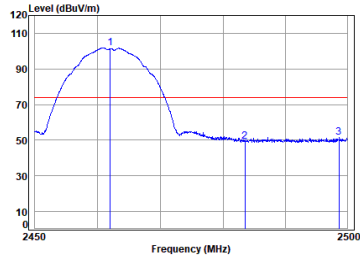
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	6.83	27.46	31.54	36.20	38.95	54.00	-15.05	Average
2	2390.000	6.83	27.46	31.54	36.20	38.95	54.00	-15.05	Average
3 pp	2412.000	6.91	27.52	31.54	97.94	100.83	54.00	46.83	Average

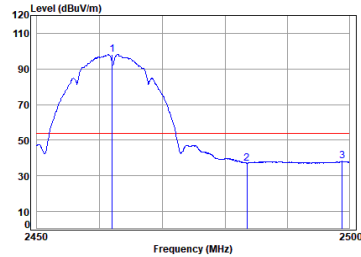
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	98.35	101.72	74.00	27.72	Peak
2	2483.500	7.40	27.80	31.55	45.82	49.47	74.00	-24.53	Peak
3	2498.687	7.50	27.89	31.55	47.66	51.50	74.00	-22.50	Peak

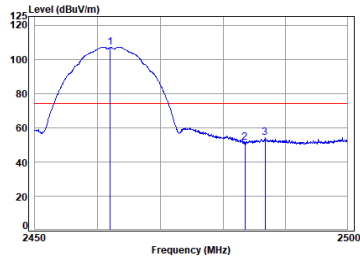
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	94.64	98.01	54.00	44.01	Average
2	2483.500	7.40	27.80	31.55	33.47	37.12	54.00	-16.88	Average
3	2498.889	7.50	27.89	31.55	34.28	38.12	54.00	-15.88	Average

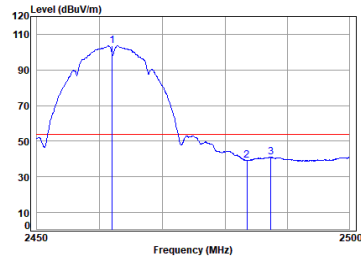
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	103.69	107.06	74.00	33.06	Peak
2	2483.500	7.40	27.80	31.55	47.68	51.33	74.00	-22.67	Peak
3	2486.752	7.42	27.82	31.55	50.50	54.19	74.00	-19.81	Peak

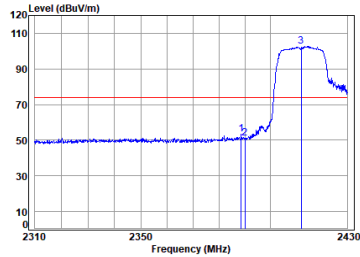
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	100.12	103.49	54.00	49.49	Average
2	2483.500	7.40	27.80	31.55	35.58	39.23	54.00	-14.77	Average
3	2487.355	7.43	27.82	31.55	37.39	41.09	54.00	-12.91	Average

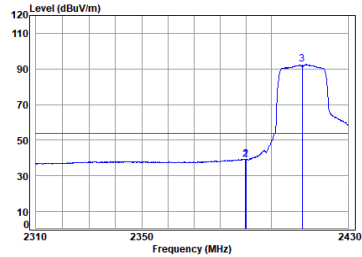
11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.637	6.82	27.45	31.54	50.59	53.32	74.00	-20.68	Peak
2	2390.000	6.83	27.46	31.54	48.23	50.98	74.00	-23.02	Peak
3 pp	2412.000	6.91	27.52	31.54	99.69	102.58	74.00	28.58	Peak

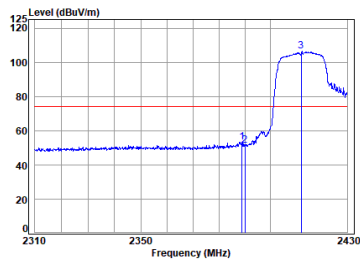
11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	6.83	27.46	31.54	36.51	39.26	54.00	-14.74	Average
2	2390.000	6.83	27.46	31.54	36.42	39.17	54.00	-14.83	Average
3 pp	2412.000	6.91	27.52	31.54	89.82	92.71	54.00	38.71	Average

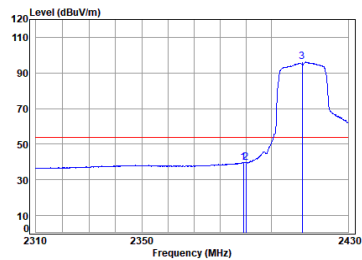
11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.879	6.82	27.46	31.54	50.71	53.45	74.00	-20.55	Peak
2	2390.000	6.83	27.46	31.54	48.59	51.34	74.00	-22.66	Peak
3 pp	2412.000	6.91	27.52	31.54	103.70	106.59	74.00	32.59	Peak

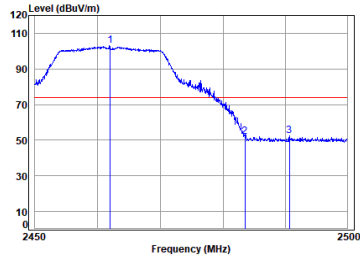
11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.121	6.82	27.46	31.54	37.07	39.81	54.00	-14.19	Average
2	2390.000	6.83	27.46	31.54	36.91	39.66	54.00	-14.34	Average
3 pp	2412.000	6.91	27.52	31.54	93.39	96.28	54.00	42.28	Average

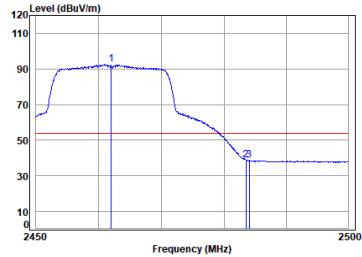
11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	99.60	102.97	74.00	28.97	Peak
2	2483.500	7.40	27.80	31.55	48.59	52.24	74.00	-21.76	Peak
3	2490.674	7.45	27.84	31.55	48.77	52.51	74.00	-21.49	Peak

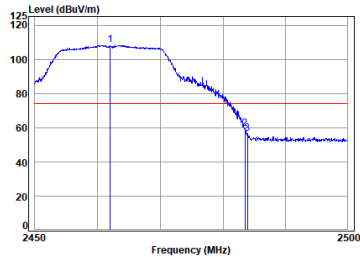
11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	89.11	92.48	54.00	38.48	Average
2	2483.500	7.40	27.80	31.55	35.11	38.76	54.00	-15.24	Average
3	2484.041	7.40	27.80	31.55	35.00	38.65	54.00	-15.35	Average

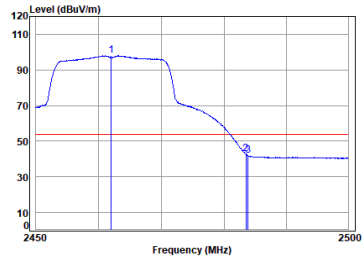
11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	104.77	108.14	74.00	34.14	Peak
2	2483.500	7.40	27.80	31.55	55.94	59.59	74.00	-14.41	Peak
3	2483.940	7.40	27.80	31.55	53.00	56.65	74.00	-17.35	Peak

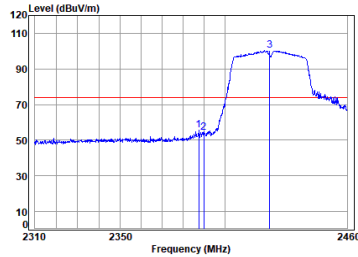
11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	94.60	97.97	54.00	43.97	Average
2	2483.500	7.40	27.80	31.55	39.12	42.77	54.00	-11.23	Average
3	2483.890	7.40	27.80	31.55	38.55	42.20	54.00	-11.80	Average

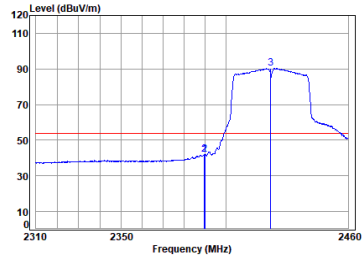
11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.373	6.82	27.46	31.54	52.84	55.57	74.00	-18.43	Peak
2	2390.000	6.83	27.46	31.54	51.73	54.48	74.00	-19.52	Peak
3 pp	2422.000	6.98	27.54	31.54	97.22	100.20	74.00	26.20	Peak

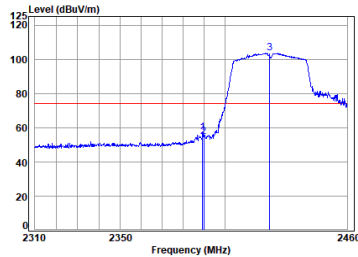
11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	31.54	39.39	42.14	54.00	-11.86	Average
2	2390.000	6.83	27.46	31.54	39.31	42.06	54.00	-11.94	Average
3 pp	2422.000	6.98	27.54	31.54	87.53	90.51	54.00	36.51	Average

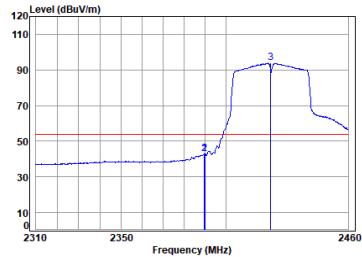
11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.376	6.82	27.46	31.54	54.41	57.15	74.00	-16.85	Peak
2	2390.000	6.83	27.46	31.54	51.89	54.64	74.00	-19.36	Peak
3 pp	2422.000	6.98	27.54	31.54	100.60	103.58	74.00	29.58	Peak

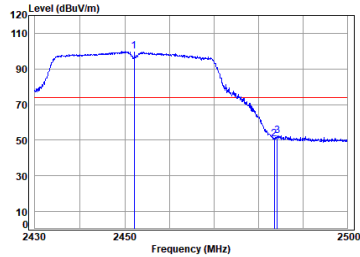
11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	31.54	40.26	43.01	54.00	-10.99	Average
2	2390.000	6.83	27.46	31.54	40.08	42.83	54.00	-11.17	Average
3 pp	2422.000	6.98	27.54	31.54	90.83	93.81	54.00	39.81	Average

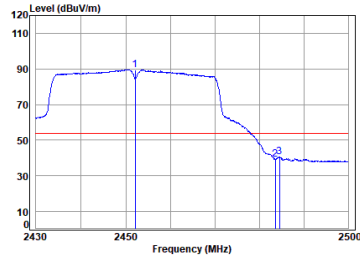
11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	31.55	96.55	99.80	74.00	25.80	Peak
2	2483.500	7.40	27.80	31.55	47.81	50.66	74.00	-23.34	Peak
3	2484.147	7.40	27.80	31.55	48.86	52.51	74.00	-21.49	Peak

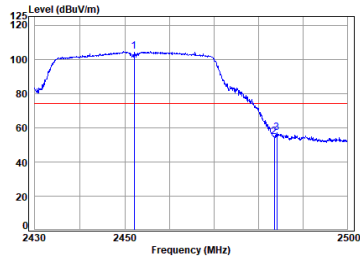
11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	31.55	86.36	89.61	54.00	35.61	Average
2	2483.500	7.40	27.80	31.55	35.74	39.39	54.00	-14.61	Average
3	2484.429	7.41	27.81	31.55	36.96	40.63	54.00	-13.37	Average

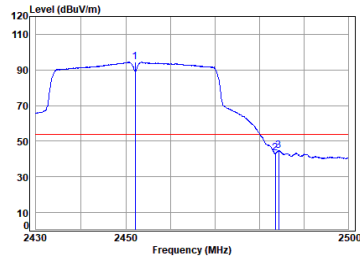
11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	31.55	101.24	104.49	74.00	30.49	Peak
2	2483.500	7.40	27.80	31.55	50.84	54.49	74.00	-19.51	Peak
3	2484.076	7.40	27.80	31.55	53.42	57.07	74.00	-16.93	Peak

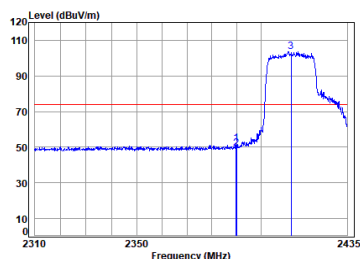
11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2452.000	7.19	27.61	31.55	91.05	94.30	54.00	40.30	Average
2	2483.500	7.40	27.80	31.55	39.53	43.18	54.00	-10.82	Average
3	2484.217	7.40	27.81	31.55	41.04	44.70	54.00	-9.30	Average

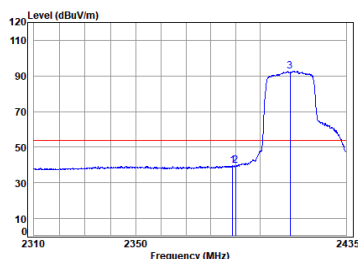
11ax_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.869	6.83	27.46	31.54	49.27	52.02	74.00	-21.98	Peak
2	2390.000	6.83	27.46	31.54	46.63	49.38	74.00	-24.62	Peak
3 pp	2412.000	6.91	27.52	31.54	100.88	103.77	74.00	29.77	Peak

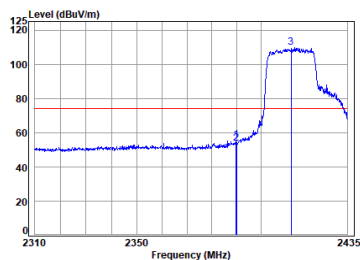
11ax_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.736	6.82	27.45	31.54	36.84	39.57	54.00	-14.43	Average
2	2390.000	6.83	27.46	31.54	36.77	39.52	54.00	-14.48	Average
3 pp	2412.000	6.91	27.52	31.54	89.96	92.85	54.00	38.85	Average

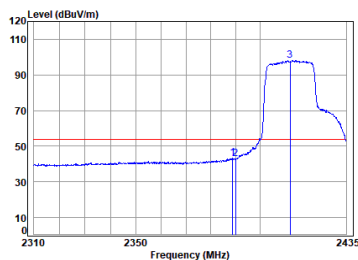
11ax_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.869	6.83	27.46	31.54	52.76	55.51	74.00	-18.49	Peak
2	2390.000	6.83	27.46	31.54	50.88	53.63	74.00	-20.37	Peak
3 pp	2412.000	6.91	27.52	31.54	106.83	109.72	74.00	35.72	Peak

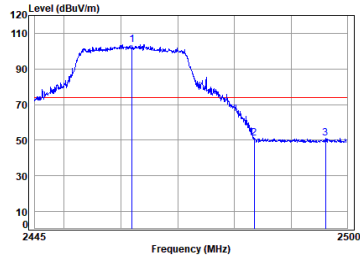
11ax_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.862	6.82	27.46	31.54	40.41	43.15	54.00	-10.85	Average
2	2390.000	6.83	27.46	31.54	40.03	42.78	54.00	-11.22	Average
3 pp	2412.000	6.91	27.52	31.54	95.29	98.18	54.00	44.18	Average

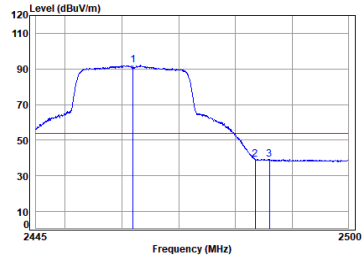
11ax_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	100.41	103.78	74.00	29.78	Peak
2	2483.500	7.40	27.80	31.55	47.60	51.25	74.00	-22.75	Peak
3	2496.166	7.48	27.88	31.55	47.21	51.02	74.00	-22.98	Peak

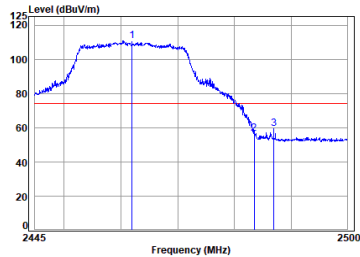
11ax_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	88.58	91.95	54.00	37.95	Average
2	2483.500	7.40	27.80	31.55	35.63	39.28	54.00	-14.72	Average
3	2486.024	7.42	27.82	31.55	35.67	39.36	54.00	-14.64	Average

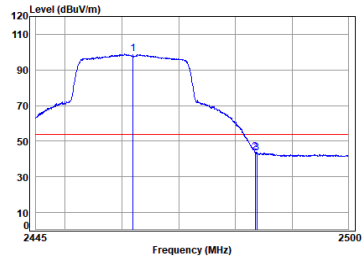
11ax_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	107.50	110.87	74.00	36.87	Peak
2	2483.500	7.40	27.80	31.55	53.11	56.76	74.00	-17.24	Peak
3	2486.965	7.42	27.82	31.55	55.55	59.24	74.00	-14.76	Peak

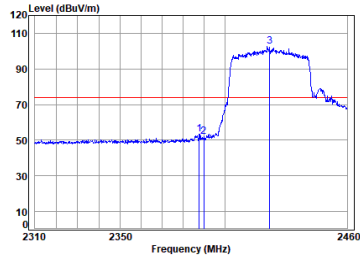
11ax_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 2462.000	7.25	27.67	31.55	95.49	98.86	54.00	44.86	Average
2	2483.500	7.40	27.80	31.55	40.15	43.80	54.00	-10.20	Average
3	2483.813	7.40	27.80	31.55	39.85	43.50	54.00	-10.50	Average

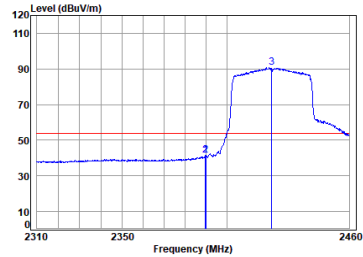
11ax_40M_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.723	6.82	27.45	31.54	58.80	53.53	74.00	-20.47	Peak
2	2390.000	6.83	27.46	31.54	49.40	52.15	74.00	-21.85	Peak
3 pp	2422.000	6.98	27.54	31.54	99.59	102.57	74.00	28.57	Peak

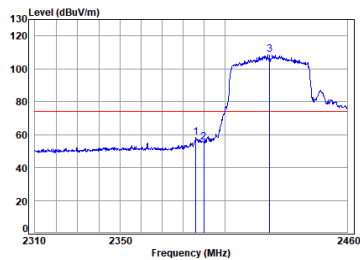
11ax_40M_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	31.54	38.85	41.60	54.00	-12.40	Average
2	2390.000	6.83	27.46	31.54	38.87	41.62	54.00	-12.38	Average
3 pp	2422.000	6.98	27.54	31.54	87.69	90.67	54.00	36.67	Average

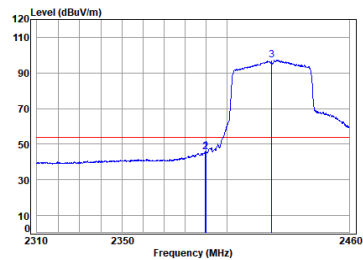
11ax_40M_TX_CH_03_Vertical--Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.071	6.82	27.44	31.54	55.77	58.49	74.00	-15.51	Peak
2	2390.000	6.83	27.46	31.54	52.76	55.51	74.00	-18.49	Peak
3 pp	2422.000	6.98	27.54	31.54	105.65	108.63	74.00	34.63	Peak

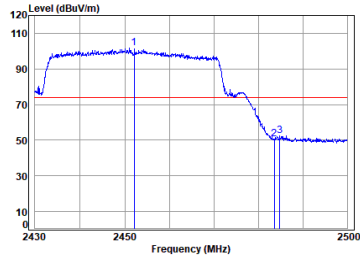
11ax_40M_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	31.54	43.39	46.14	54.00	-7.86	Average
2	2390.000	6.83	27.46	31.54	42.87	45.62	54.00	-8.38	Average
3 pp	2422.000	6.98	27.54	31.54	94.17	97.15	54.00	43.15	Average

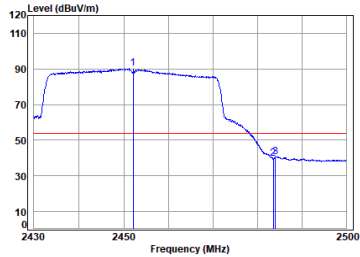
11ax_40M_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	98.28	101.53	74.00	27.53	Peak
2	2483.500	7.40	27.80	31.55	47.15	50.80	74.00	-23.20	Peak
3	2484.711	7.41	27.81	31.55	48.81	52.48	74.00	-21.52	Peak

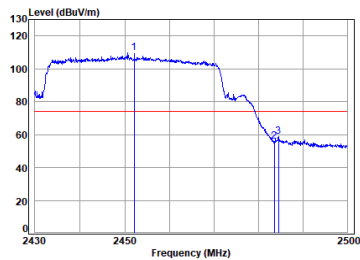
11ax_40M_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	86.91	90.16	74.00	36.16	Average
2	2483.500	7.40	27.80	31.55	36.25	39.90	74.00	-34.10	Average
3	2483.935	7.40	27.80	31.55	37.18	40.83	74.00	-33.17	Average

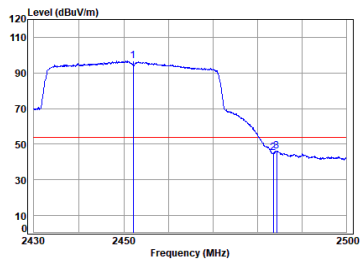
11ax_40M_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	106.62	109.87	74.00	35.87	Peak
2	2483.500	7.40	27.80	31.55	52.23	55.88	74.00	-18.12	Peak
3	2484.429	7.41	27.81	31.55	55.00	58.67	74.00	-15.33	Peak

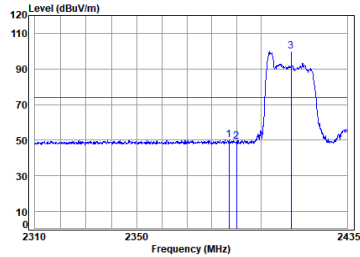
11ax_40M_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	93.45	96.70	74.00	42.70	Average
2	2483.500	7.40	27.80	31.55	41.31	44.96	74.00	-9.04	Average
3	2484.217	7.40	27.81	31.55	42.57	46.23	74.00	-7.77	Average

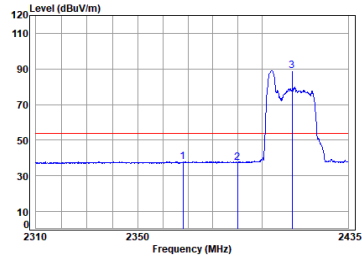
11ax_20M_Partial_RU26_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.848	6.82	27.45	31.54	47.45	50.18	74.00	-23.82	Peak
2	2390.000	6.83	27.46	31.54	46.34	49.09	74.00	-24.91	Peak
3 pp	2412.000	6.91	27.52	31.54	97.83	99.92	74.00	25.92	Peak

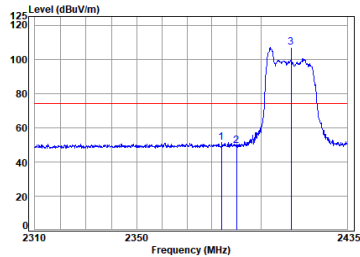
11ax_20M_Partial_RU26_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2368.055	6.81	27.37	31.54	35.30	37.94	54.00	-16.06	Average
2	2390.000	6.83	27.46	31.54	34.67	37.42	54.00	-16.58	Average
3 pp	2412.000	6.91	27.52	31.54	86.26	89.15	54.00	35.15	Average

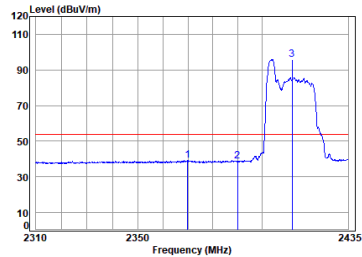
11ax_20M_Partial_RU26_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2383.957	6.82	27.44	31.54	48.69	51.41	74.00	-22.59	Peak
2	2390.000	6.83	27.46	31.54	46.72	49.47	74.00	-24.53	Peak
3 pp	2412.000	6.91	27.52	31.54	104.28	107.17	74.00	33.17	Peak

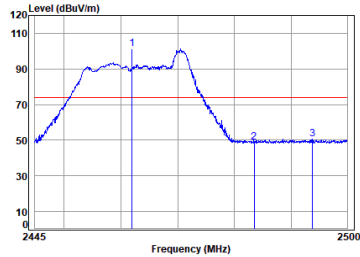
11ax_20M_Partial_RU26_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2369.927	6.82	27.38	31.54	36.45	39.11	54.00	-14.89	Average
2	2390.000	6.83	27.46	31.54	35.99	38.74	54.00	-15.26	Average
3 pp	2412.000	6.91	27.52	31.54	92.97	95.86	54.00	41.86	Average

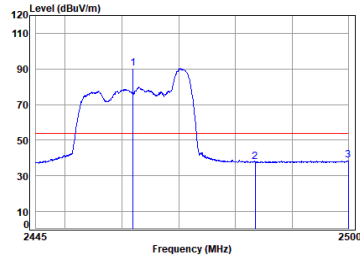
11ax_20M_Partial_RU26_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	97.89	101.26	74.00	27.26	Peak
2	2483.500	7.40	27.80	31.55	45.26	48.91	74.00	-25.09	Peak
3	2493.834	7.47	27.86	31.55	46.99	50.77	74.00	-23.23	Peak

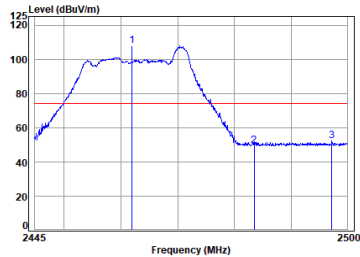
11ax_20M_Partial_RU26_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	86.92	90.29	54.00	36.29	Average
2	2483.500	7.40	27.80	31.55	34.05	37.70	54.00	-16.30	Average
3	2500.000	7.51	27.90	31.55	34.72	38.58	54.00	-15.42	Average

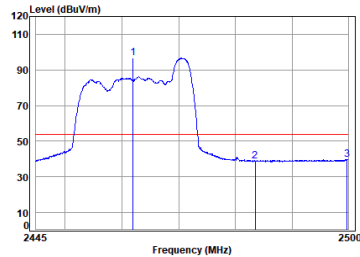
11ax_20M_Partial_RU26_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	104.29	107.66	74.00	33.66	Peak
2	2483.500	7.40	27.80	31.55	46.00	49.65	74.00	-24.35	Peak
3	2497.276	7.49	27.88	31.55	48.38	52.20	74.00	-21.80	Peak

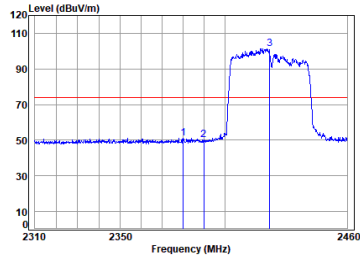
11ax_20M_Partial_RU26_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 Band edge
: 2.4G Wi-Fi 11AX20 RU26

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	93.21	96.58	54.00	42.58	Average
2	2483.500	7.40	27.80	31.55	35.10	38.75	54.00	-15.25	Average
3	2499.778	7.51	27.90	31.55	35.99	39.85	54.00	-14.15	Average

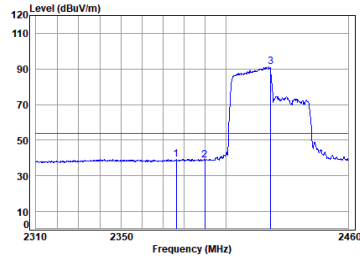
11ax_40M_Partial_RU242_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.074	6.82	27.42	31.54	48.45	51.15	74.00	-22.85	Peak
2	2390.000	6.83	27.46	31.54	47.26	50.01	74.00	-23.99	Peak
3 pp	2422.000	6.98	27.54	31.54	98.23	101.21	74.00	27.21	Peak

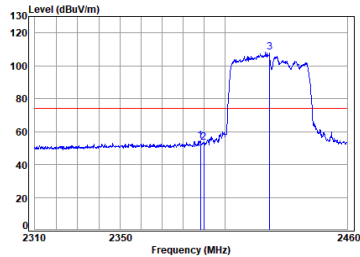
11ax_40M_Partial_RU242_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.333	6.82	27.41	31.54	36.70	39.39	54.00	-14.61	Average
2	2390.000	6.83	27.46	31.54	36.12	38.87	54.00	-15.13	Average
3 pp	2422.000	6.98	27.54	31.54	88.15	91.13	54.00	37.13	Average

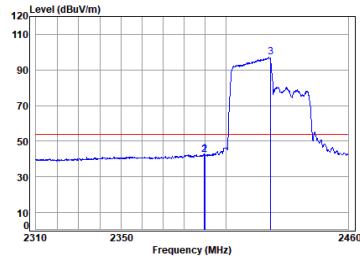
11ax_40M_Partial_RU242_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.324	6.82	27.45	31.54	51.46	54.19	74.00	-19.81	Peak
2	2390.000	6.83	27.46	31.54	50.67	53.42	74.00	-20.58	Peak
3 pp	2422.000	6.98	27.54	31.54	105.26	108.24	74.00	34.24	Peak

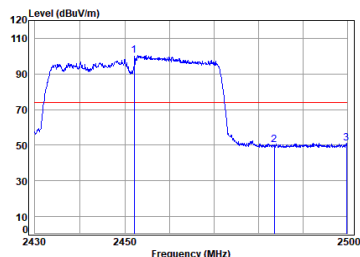
11ax_40M_Partial_RU242_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	6.83	27.46	31.54	40.11	42.86	54.00	-11.14	Average
2	2390.000	6.83	27.46	31.54	39.62	42.37	54.00	-11.63	Average
3 pp	2422.000	6.98	27.54	31.54	94.01	96.99	54.00	42.99	Average

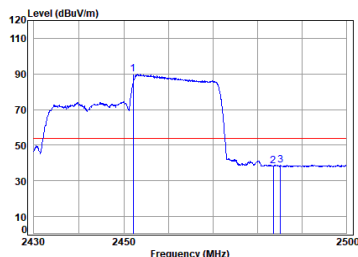
11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40 RU242

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	97.15	100.40	74.00	26.40	Peak
2	2483.500	7.40	27.80	31.55	46.44	50.09	74.00	-23.91	Peak
3	2499.858	7.51	27.90	31.55	47.17	51.03	74.00	-22.97	Peak

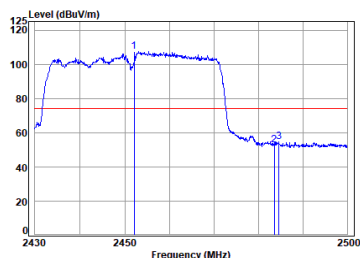
11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40 RU242

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	86.84	90.09	54.00	36.09	Average
2	2483.500	7.40	27.80	31.55	34.47	38.12	54.00	-15.88	Average
3	2485.064	7.41	27.81	31.55	35.22	38.89	54.00	-15.11	Average

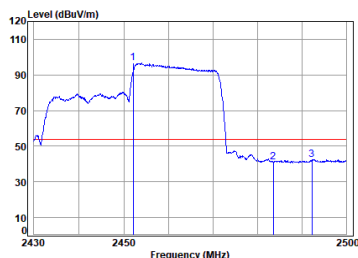
11ax_40M_Partial_RU242_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40 RU242

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	104.26	107.51	74.00	33.51	Peak
2	2483.500	7.40	27.80	31.55	49.08	52.73	74.00	-21.27	Peak
3	2484.500	7.41	27.81	31.55	50.83	54.50	74.00	-19.50	Peak

11ax_40M_Partial_RU242_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 Band edge
: 2.4G Wi-Fi 11AX40 RU242

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.19	27.61	31.55	93.28	96.53	54.00	42.53	Average
2	2483.500	7.40	27.80	31.55	37.52	41.17	54.00	-12.83	Average
3	2492.273	7.46	27.85	31.55	38.80	42.56	54.00	-11.44	Average

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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 36 of 230

7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Test Engineer: Mason Wu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.5 % RH

Atmospheric Pressure: 1020 mbar



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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

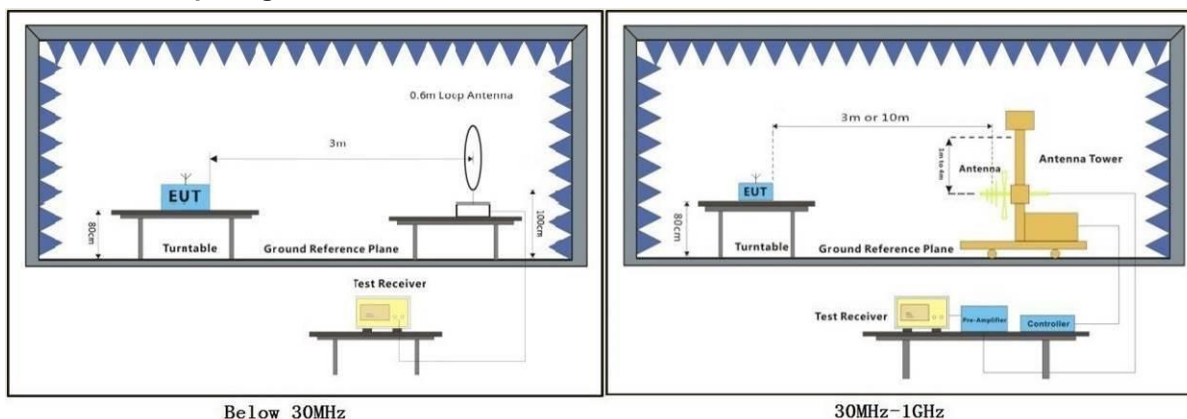
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

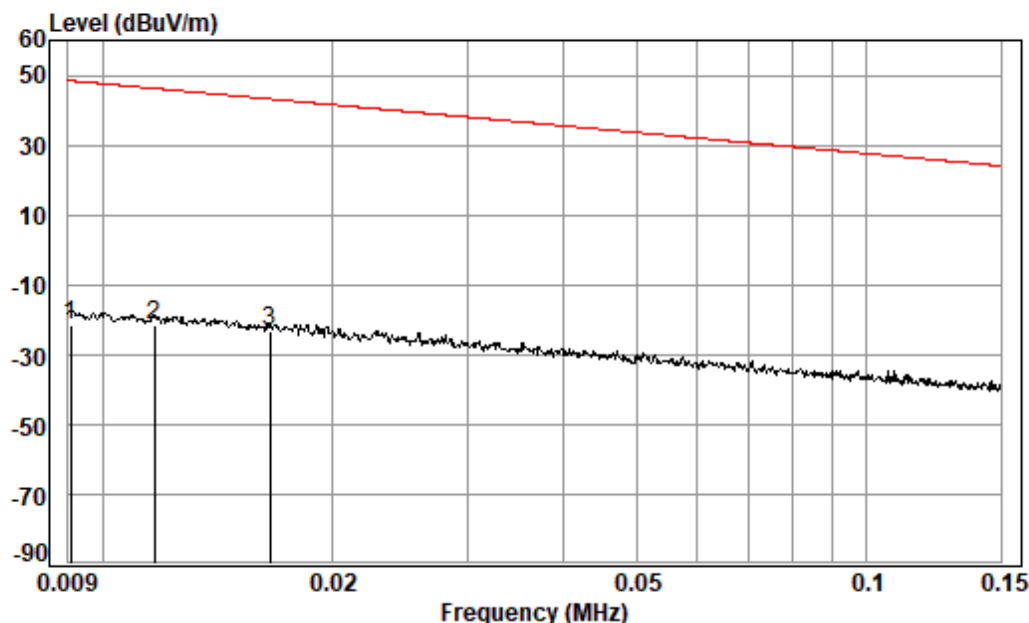
SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 39 of 230

RUTC16

Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	70.61	19.03	0.10	31.11	-21.37	48.43	-69.80	Average
2	0.012	72.06	17.45	0.10	31.28	-21.67	46.23	-67.90	Average
3 pp	0.017	72.62	15.28	0.11	31.53	-23.52	43.20	-66.72	Average



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

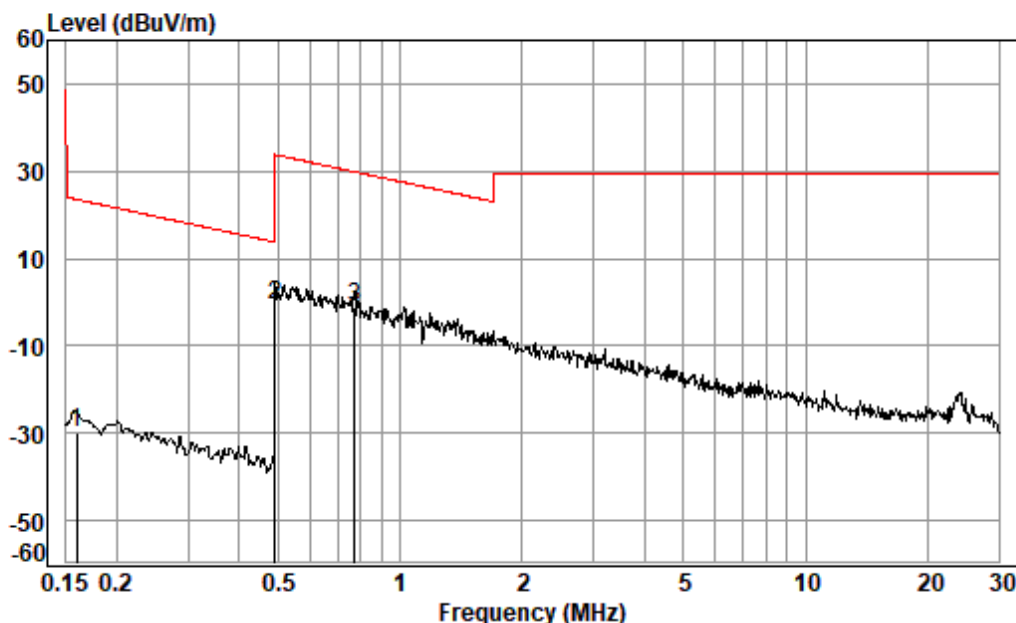
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 40 of 230

Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.159	71.90	10.49	0.15	32.40	-29.86	23.57	Average
2		0.491	61.39	10.37	0.28	32.50	-0.46	33.77	QP
3	pp	0.771	60.61	10.35	0.33	32.56	-1.27	29.87	QP



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

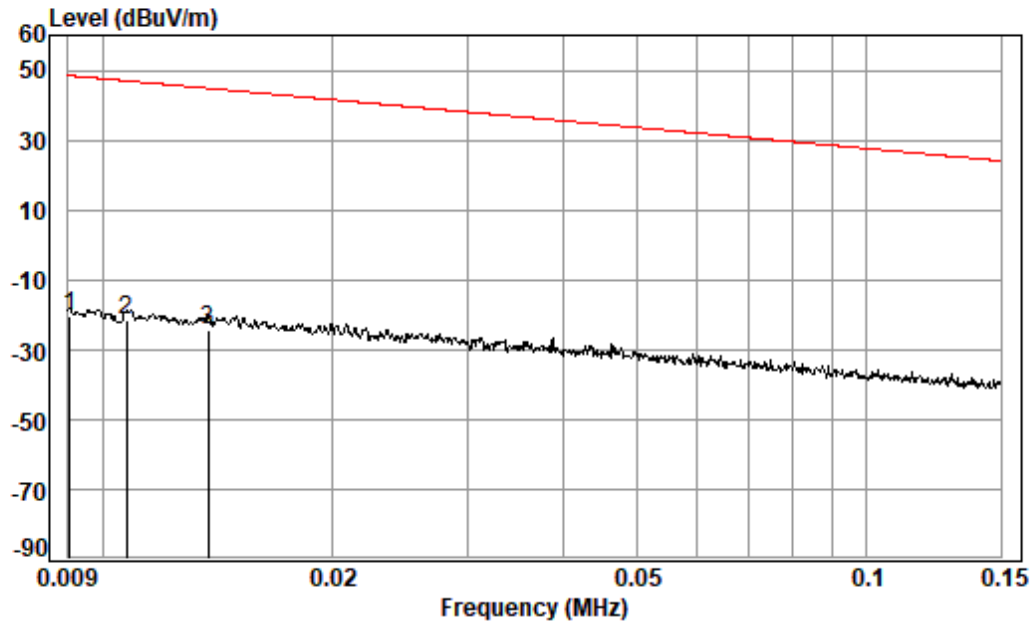
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 41 of 230

Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.009	71.47	19.05	0.10	31.10	-20.48	48.45	-68.93	Average
2 pp	0.011	71.50	17.87	0.10	31.22	-21.75	46.96	-68.71	Average
3	0.014	70.26	16.54	0.11	31.40	-24.49	44.84	-69.33	Average



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

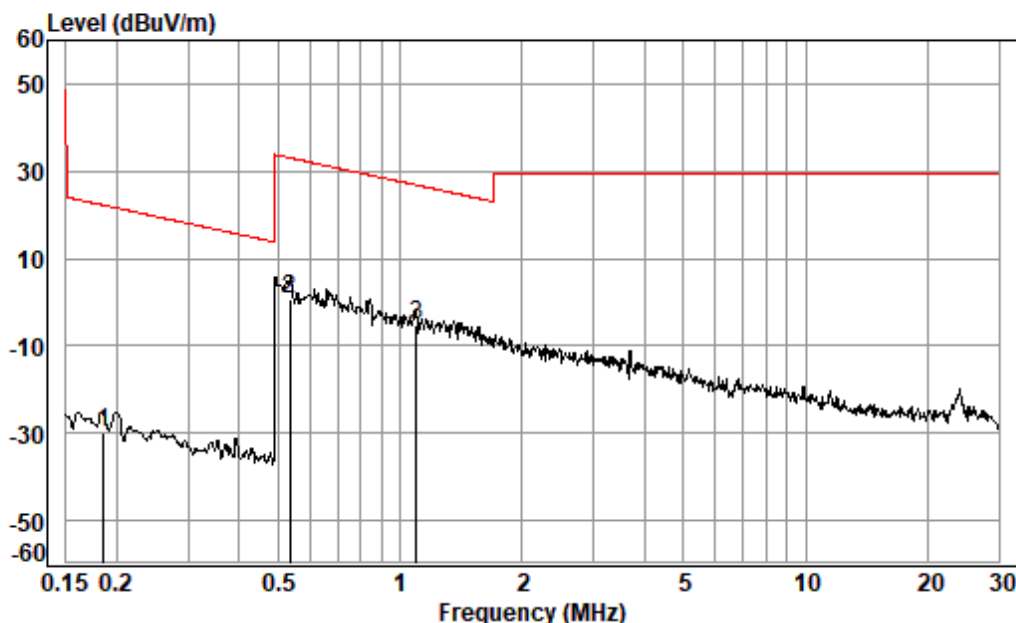
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.185	71.67	10.47	0.16	32.40	-30.10	22.24	Average
2		0.535	62.67	10.37	0.29	32.51	0.82	33.04	QP
3	pp	1.100	56.48	10.32	0.37	32.59	-5.42	26.80	QP



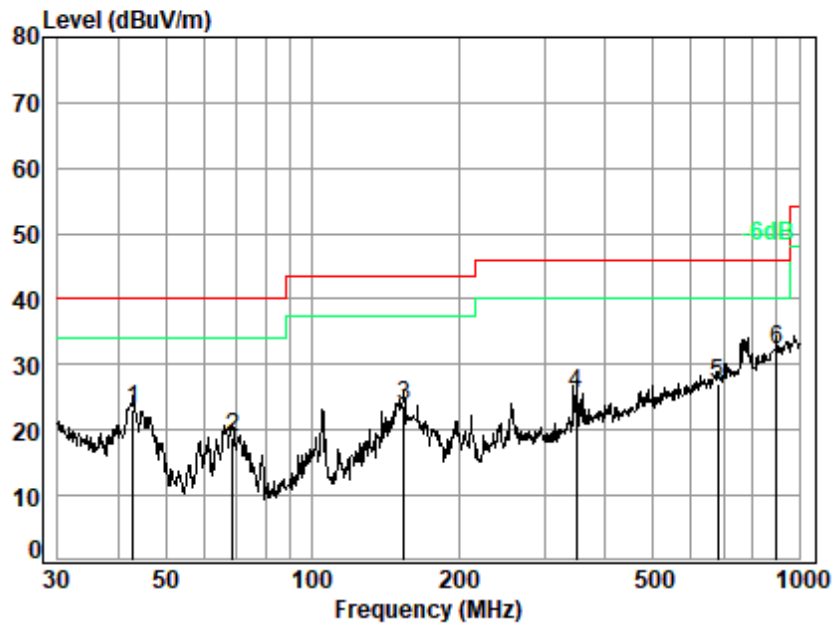
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 05363TL/05364TL

Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	42.900	15.06	0.85	27.64	34.91	23.18	40.00	-16.82	QP
2	68.631	10.59	0.97	27.62	34.83	18.77	40.00	-21.23	QP
3	154.279	13.88	1.52	27.73	36.07	23.74	43.50	-19.76	QP
4	349.250	19.61	2.31	27.63	31.30	25.59	46.00	-20.41	QP
5	682.348	25.64	3.36	27.88	25.85	26.97	46.00	-19.03	QP
6 q	900.147	28.76	3.98	26.97	26.60	32.37	46.00	-13.63	QP



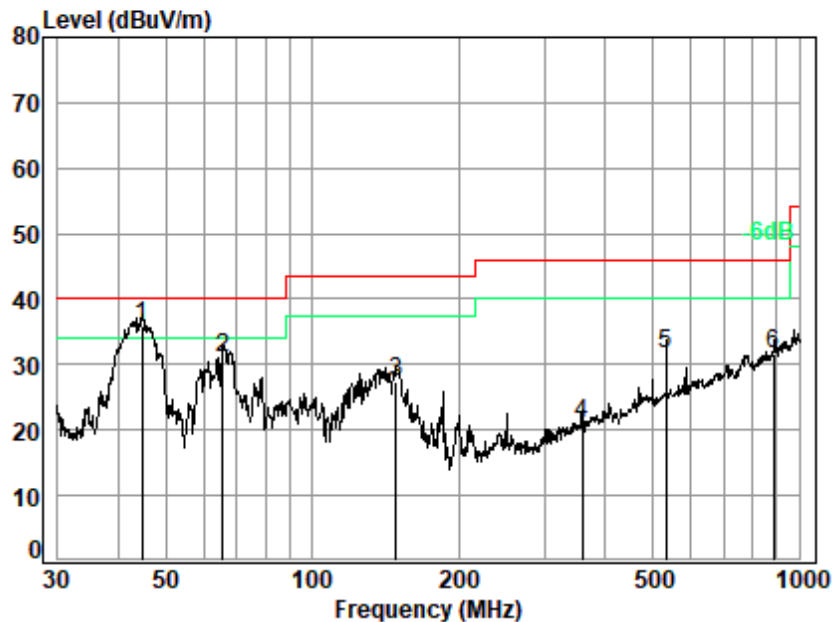
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 44 of 230

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 05363TL/05364TL

Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	q	44.743	14.45	0.86	27.63	48.14	35.82	40.00 -4.18 QP
2		65.573	10.75	0.95	27.62	46.90	30.98	40.00 -9.02 QP
3		148.963	13.18	1.50	27.71	40.49	27.46	43.50 -16.04 QP
4		357.929	19.80	2.34	27.65	26.50	20.99	46.00 -25.01 QP
5		533.832	23.33	2.91	28.00	33.48	31.72	46.00 -14.28 QP
6		887.610	28.80	3.95	27.04	25.91	31.62	46.00 -14.38 QP



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

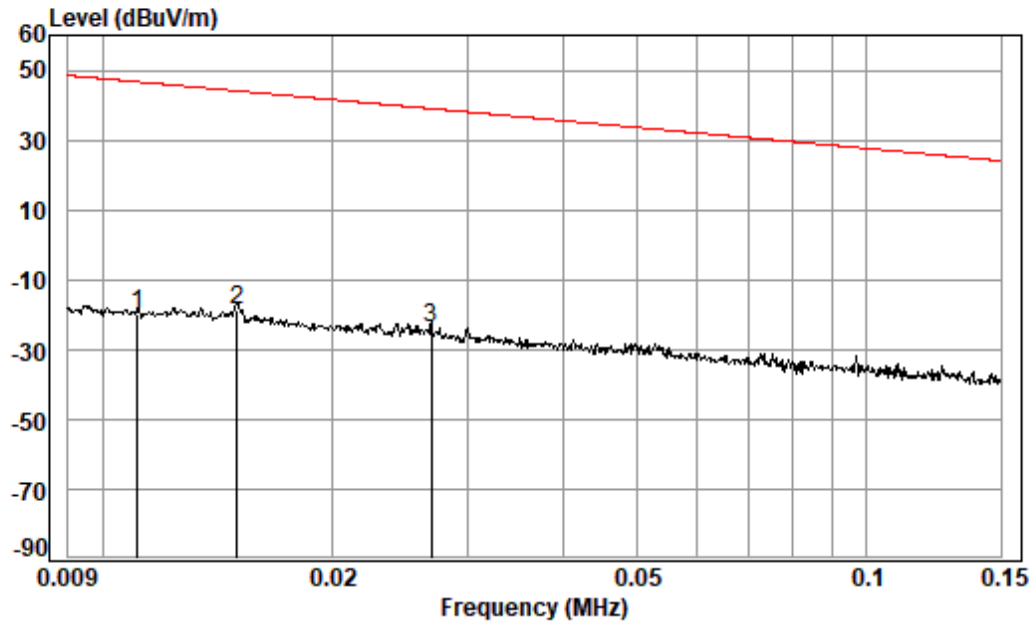
SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 45 of 230

RUTC54

Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.011	73.42	17.70	0.10	31.25	-20.03	46.67	-66.70	Average
2 pp	0.015	76.40	15.99	0.11	31.46	-18.96	44.08	-63.04	Average
3	0.027	75.02	12.65	0.12	31.87	-24.08	39.00	-63.08	Average



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

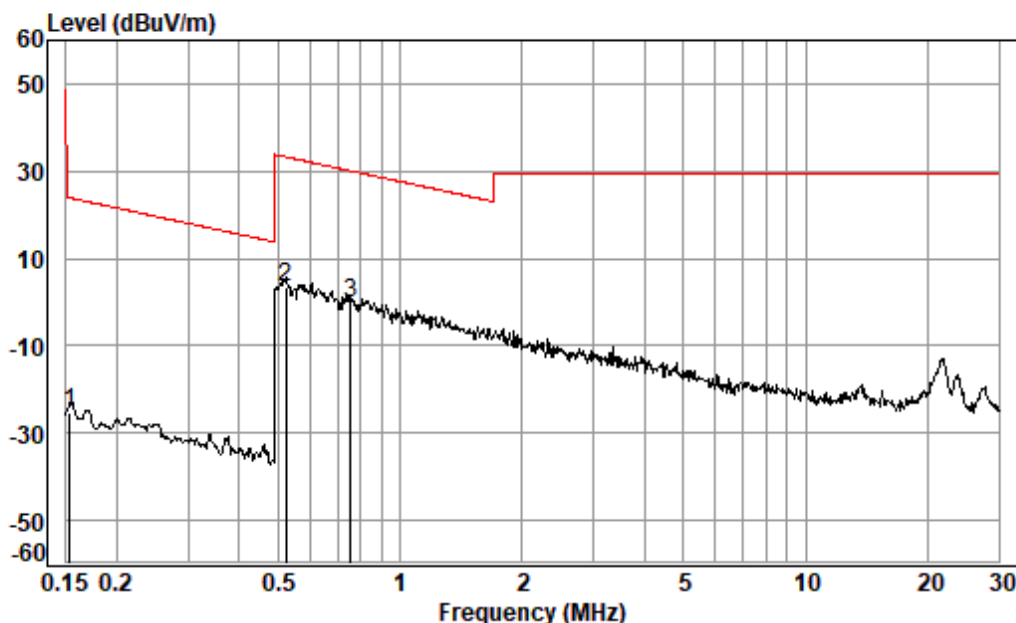
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 46 of 230

Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.153	76.63	10.50	0.14	32.40	-25.13	23.89	Average
2	pp	0.524	65.33	10.37	0.29	32.51	3.48	33.22	QP
3		0.755	61.46	10.35	0.33	32.56	-0.42	30.06	QP



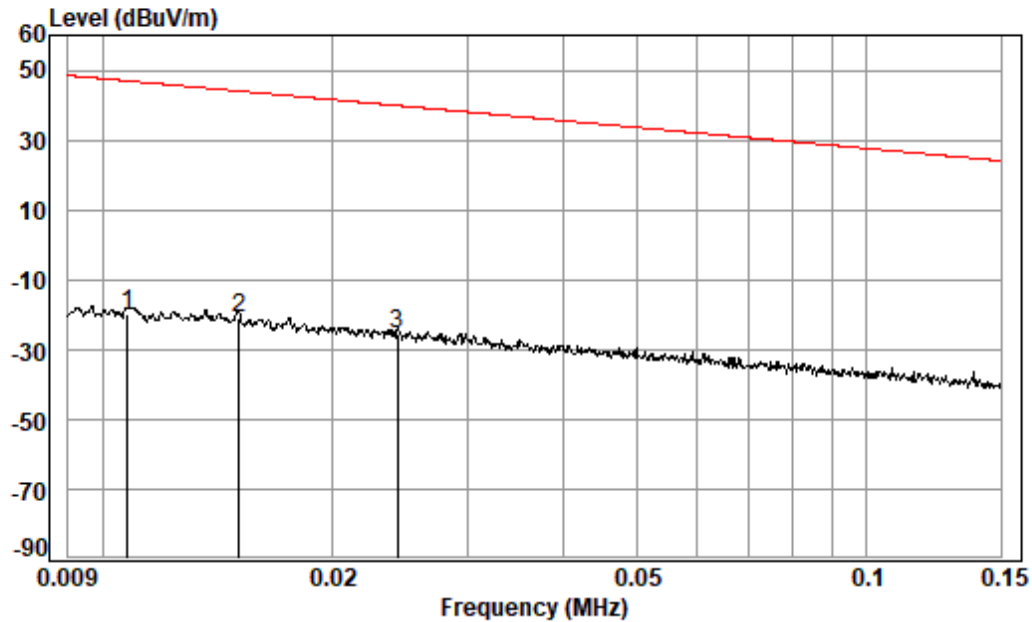
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 05363TL

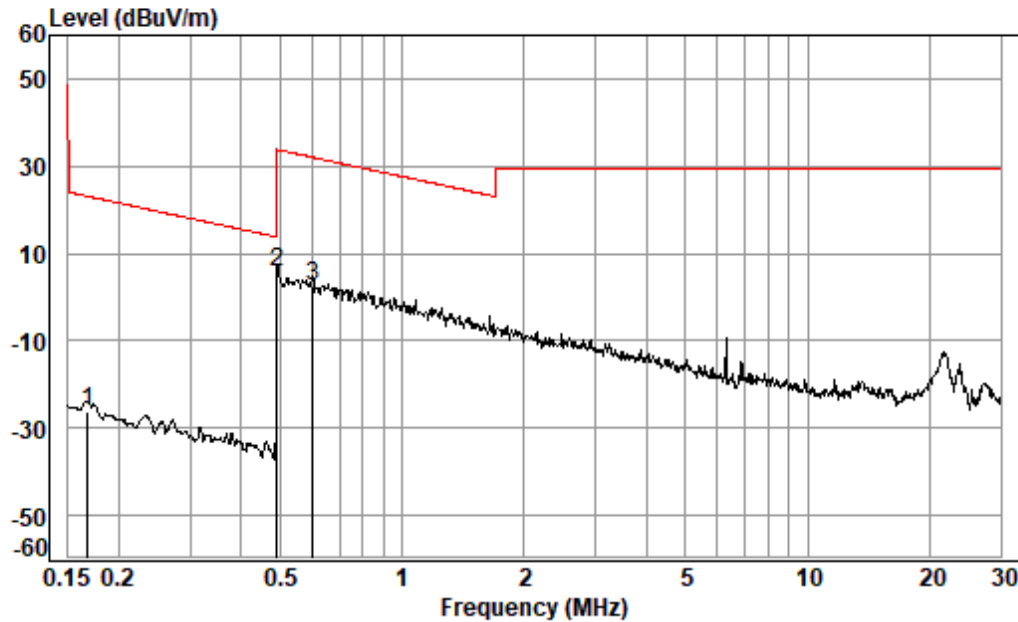
Test Mode: 00

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.011	73.22	17.85	0.10	31.23	-20.06	46.94	-67.00	Average
2 pp	0.015	74.50	15.95	0.11	31.46	-20.90	44.03	-64.93	Average
3	0.024	72.96	13.06	0.11	31.79	-25.66	39.88	-65.54	Average



Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 05363TL

Test Mode: 00

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.168	75.74	10.49	0.15	32.40	-26.02	23.11	Average
2	pp	0.491	67.49	10.37	0.28	32.50	5.64	33.77	QP
3		0.601	64.52	10.36	0.30	32.53	2.65	32.03	QP



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

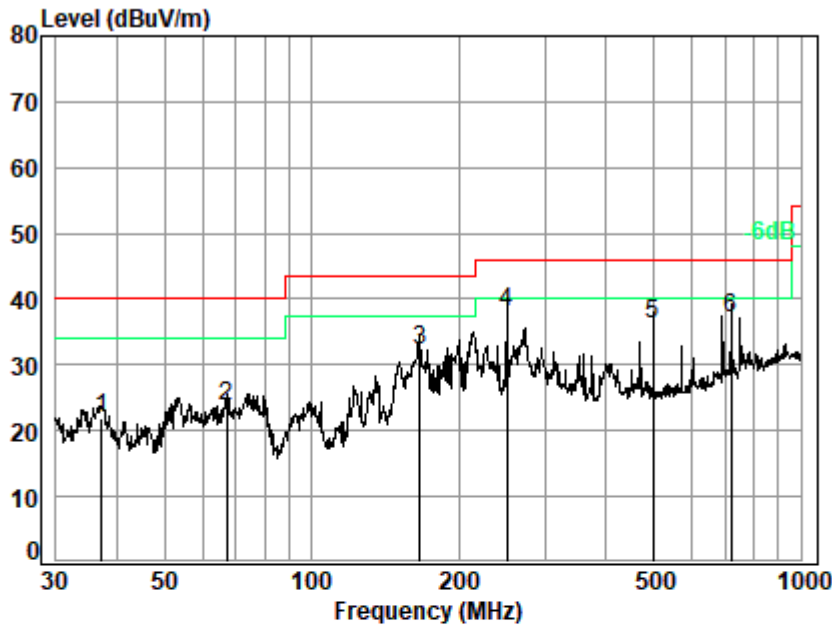
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 49 of 230

Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05363TL/05364TL
Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.155	17.68	0.80	27.64	30.97	21.81	40.00 -18.19 QP
2	66.967	10.81	0.96	27.62	39.52	23.67	40.00 -16.33 QP
3	166.651	13.15	1.57	27.75	45.39	32.36	43.50 -11.14 QP
4 q	250.301	17.24	1.93	27.63	46.48	38.02	46.00 -7.98 QP
5	499.425	22.90	2.81	27.94	38.37	36.14	46.00 -9.86 QP
6	721.726	26.25	3.47	27.78	35.18	37.12	46.00 -8.88 QP

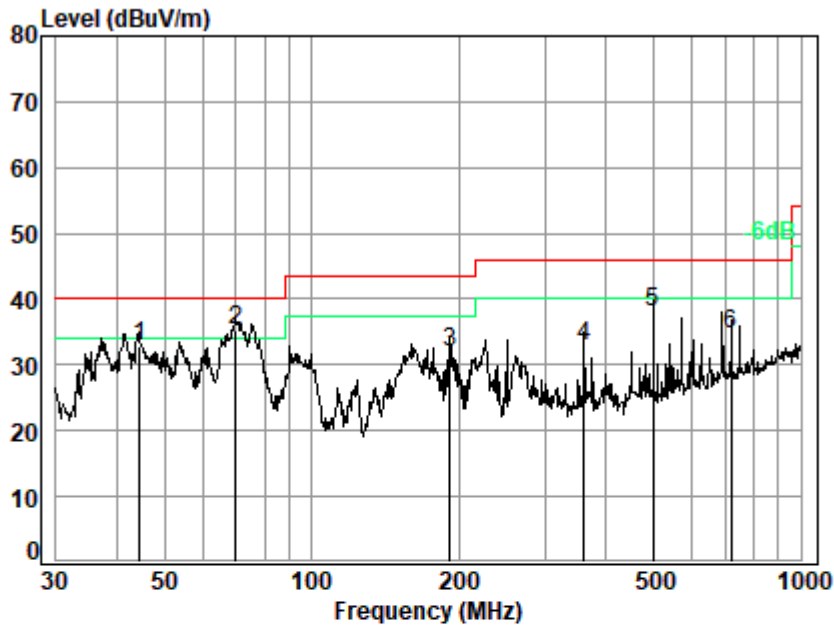


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 05363TL/05364TL

Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.431	14.41	0.86	27.64	45.28	32.91	40.00 -7.09 QP
2 q	70.090	10.61	0.98	27.62	51.20	35.17	40.00 -4.83 QP
3	191.745	14.26	1.67	27.79	43.94	32.08	43.50 -11.42 QP
4	360.448	20.23	2.35	27.66	38.08	33.00	46.00 -13.00 QP
5	499.425	22.90	2.81	27.94	40.21	37.98	46.00 -8.02 QP
6	721.726	26.25	3.47	27.78	32.74	34.68	46.00 -11.32 QP



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 51 of 230

7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Test Engineer: Mihawk Li

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

Humidity: 52.7 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

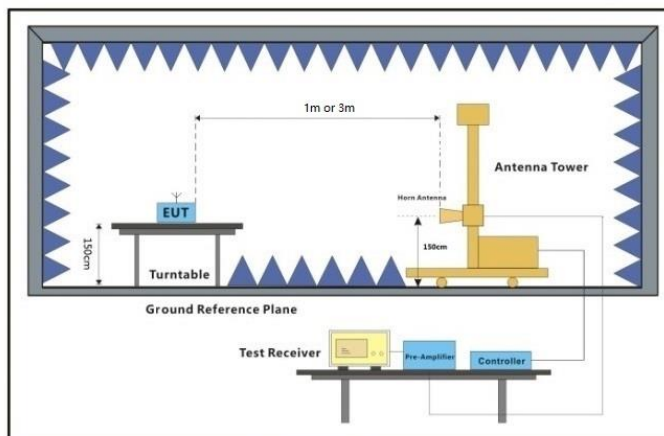


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.4.3 Test Setup Diagram



Above 1GHz

7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



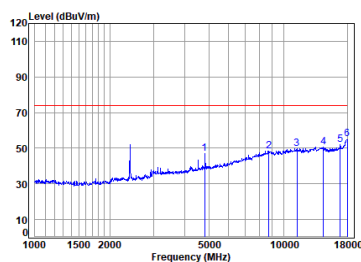
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Remark: Only retain the data of the worst-case 11b and 11n and 11ax(RU) modes.

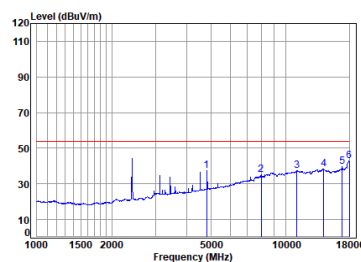
11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4818.016	8.92	31.97	56.17	62.27	46.99	74.00	-27.01 Peak
2	8713.630	12.01	38.57	55.26	53.19	48.51	74.00	-25.49 Peak
3	11302.480	14.39	39.70	53.59	49.32	49.82	74.00	-24.18 Peak
4	14450.130	16.62	39.55	54.35	48.90	50.72	74.00	-23.28 Peak
5	16891.040	19.64	39.60	54.27	47.14	52.11	74.00	-21.89 Peak
6	pp18000.000	18.64	43.80	54.50	47.49	55.43	74.00	-18.57 Peak

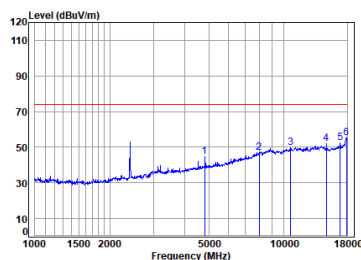
11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4818.016	8.92	31.97	56.17	52.75	37.47	54.00	-16.53 Average
2	7966.832	11.47	37.73	55.93	42.08	35.35	54.00	-18.65 Average
3	11108.160	14.13	39.51	53.53	37.20	37.31	54.00	-16.69 Average
4	14242.800	16.83	39.80	54.38	35.89	38.14	54.00	-15.86 Average
5	16891.040	19.64	39.60	54.27	34.77	39.74	54.00	-14.26 Average
6	pp18000.000	18.64	43.80	54.50	35.15	43.09	54.00	-10.91 Average

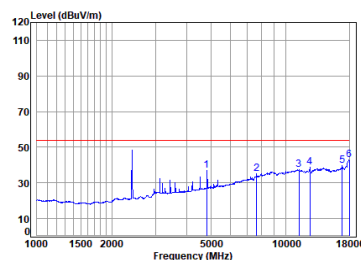
11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4818.016	8.92	31.97	56.17	60.16	44.88	74.00	-29.12 Peak
2	7966.832	11.47	37.73	55.93	53.75	47.02	74.00	-26.98 Peak
3	10667.640	13.49	39.37	53.70	50.58	49.74	74.00	-24.26 Peak
4	14873.890	16.94	38.95	54.31	50.35	51.93	74.00	-22.07 Peak
5	16891.040	19.64	39.60	54.27	47.54	52.51	74.00	-21.49 Peak
6	pp17896.250	18.87	43.08	54.48	47.79	55.26	74.00	-18.74 Peak

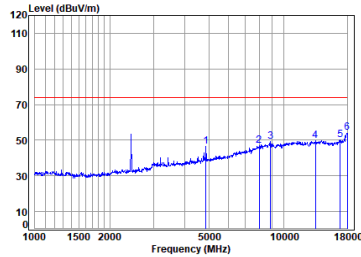
11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2412 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4818.016	8.92	31.97	56.17	52.17	36.89	54.00	-17.11 Average
2	7650.888	11.13	36.90	56.18	43.41	35.26	54.00	-18.74 Average
3	11302.480	14.39	39.70	53.59	36.92	37.42	54.00	-16.58 Average
4	12505.710	14.87	39.91	54.15	38.13	38.76	54.00	-15.24 Average
5	16891.040	19.64	39.60	54.27	34.80	39.77	54.00	-14.23 Average
6	pp18000.000	18.64	43.80	54.50	35.15	43.09	54.00	-10.91 Average

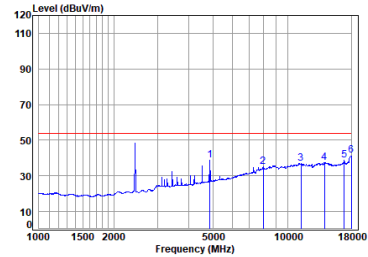
11b_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	56.21	61.67	46.58	74.00	-27.42	Peak	
2	7966.832	11.47	37.73	55.93	53.67	46.94	74.00	-27.06	Peak	
3	8866.062	12.30	38.53	55.12	53.59	49.30	74.00	-24.70	Peak	
4	13404.010	15.67	40.29	54.46	48.25	49.75	74.00	-24.25	Peak	
5	16891.040	19.64	39.60	54.27	45.24	50.21	74.00	-23.79	Peak	
6	pp18000.000	18.64	43.80	54.50	46.24	54.18	74.00	-19.82	Peak	

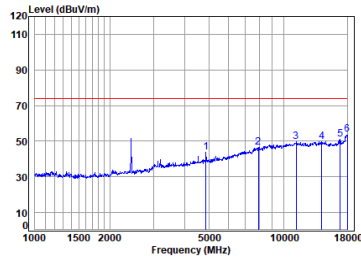
11b_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	56.21	53.72	38.63	54.00	-15.37	Average	
2	7966.832	11.47	37.73	55.93	41.70	34.97	54.00	-19.03	Average	
3	11302.480	14.39	39.70	53.59	36.31	36.81	54.00	-17.19	Average	
4	14079.080	16.38	39.90	54.39	35.62	37.51	54.00	-16.49	Average	
5	16891.040	19.64	39.60	54.27	33.63	38.60	54.00	-15.40	Average	
6	pp18000.000	18.64	43.80	54.50	33.64	41.58	54.00	-12.42	Average	

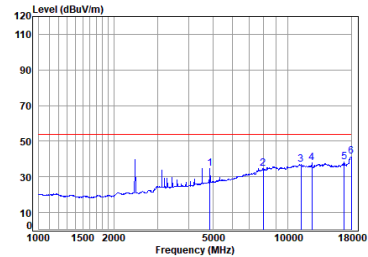
11b_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	56.21	58.91	43.82	74.00	-30.18	Peak	
2	7898.049	11.48	37.59	55.98	53.59	46.68	74.00	-27.32	Peak	
3	11237.330	14.30	39.64	53.57	49.48	49.85	74.00	-24.15	Peak	
4	14242.800	16.83	39.80	54.38	47.69	49.94	74.00	-24.06	Peak	
5	16891.040	19.64	39.60	54.27	46.05	51.02	74.00	-22.98	Peak	
6	pp18000.000	18.64	43.80	54.50	45.71	53.65	74.00	-20.35	Peak	

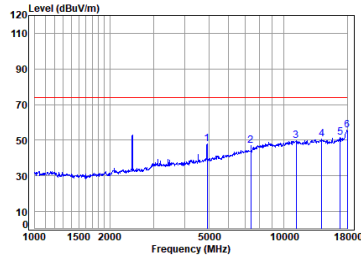
11b_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4874.043	8.97	32.15	56.21	49.85	34.76	54.00	-19.24	Average	
2	7966.832	11.47	37.73	55.93	41.51	34.78	54.00	-19.22	Average	
3	11302.480	14.39	39.70	53.59	36.39	36.89	54.00	-17.11	Average	
4	12505.710	14.87	39.91	54.15	37.22	37.85	54.00	-16.15	Average	
5	16891.040	19.64	39.60	54.27	33.50	38.47	54.00	-15.53	Average	
6	pp18000.000	18.64	43.80	54.50	33.60	41.54	54.00	-12.46	Average	

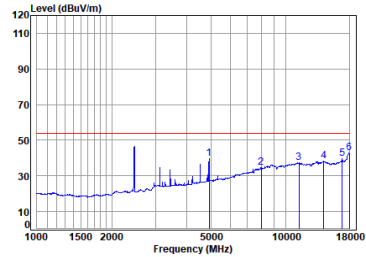
11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4930.721	9.03	32.20	56.25	62.87	47.85	74.00	-26.15	Peak
2	7390.070	11.19	36.72	56.39	55.58	47.10	74.00	-26.90	Peak
3	11204.900	14.25	39.60	53.56	49.24	49.53	74.00	-24.47	Peak
4	14201.690	16.67	39.80	54.38	48.65	50.74	74.00	-23.26	Peak
5	16891.040	19.64	39.60	54.27	46.66	51.63	74.00	-22.37	Peak
6	pp18000.000	18.64	43.80	54.50	47.91	55.85	74.00	-18.15	Peak

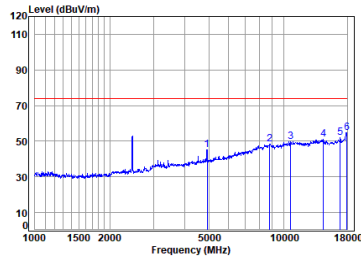
11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4930.721	9.03	32.20	56.25	54.71	39.69	54.00	-14.31	Average
2	7966.832	11.47	37.73	55.93	41.63	34.90	54.00	-19.10	Average
3	11302.480	14.39	39.70	53.59	36.84	37.34	54.00	-16.66	Average
4	14242.800	16.83	39.80	54.38	36.12	38.37	54.00	-15.63	Average
5	16891.040	19.64	39.60	54.27	34.75	39.72	54.00	-14.28	Average
6	pp18000.000	18.64	43.80	54.50	35.14	43.08	54.00	-10.92	Average

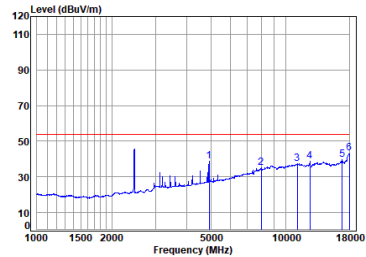
11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4930.721	9.03	32.20	56.25	60.14	45.12	74.00	-28.88	Peak
2	8789.516	12.33	38.50	55.19	52.94	48.58	74.00	-25.42	Peak
3	10667.640	13.49	39.37	53.70	50.63	49.79	74.00	-24.21	Peak
4	14450.130	16.62	39.55	54.35	49.13	50.95	74.00	-23.05	Peak
5	16891.040	19.64	39.60	54.27	46.87	51.84	74.00	-22.16	Peak
6	pp17948.050	18.75	43.44	54.49	47.12	54.82	74.00	-19.18	Peak

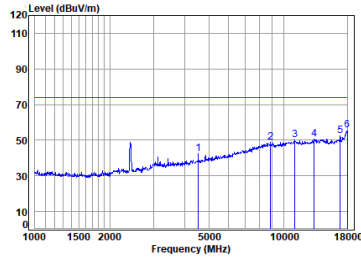
11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2462 TX RSE
: 2.4G Wi-Fi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4930.721	9.03	32.20	56.25	53.80	38.78	54.00	-15.22	Average
2	7966.832	11.47	37.73	55.93	41.91	35.18	54.00	-18.82	Average
3	11140.310	14.17	39.54	53.54	37.23	37.40	54.00	-16.60	Average
4	12505.710	14.87	39.91	54.15	38.04	38.67	54.00	-15.33	Average
5	16891.040	19.64	39.60	54.27	34.63	39.60	54.00	-14.40	Average
6	pp18000.000	18.64	43.80	54.50	35.41	43.35	54.00	-10.65	Average

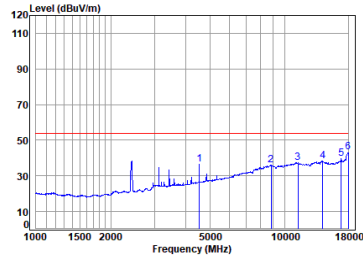
11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	58.09	42.23	74.00	-31.77	Peak
2	8840.473	12.33	38.50	55.14	52.91	48.60	74.00	-25.40	Peak
3	11076.100	14.14	39.48	53.52	49.88	49.98	74.00	-24.02	Peak
4	13249.930	15.91	40.25	54.48	49.85	50.73	74.00	-23.27	Peak
5	16891.040	19.64	39.60	54.27	47.67	52.64	74.00	-21.36	Peak
6	pp18000.000	18.64	43.80	54.50	47.55	55.49	74.00	-18.51	Peak

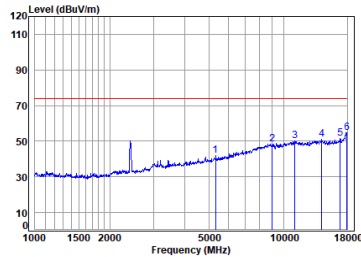
11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	52.52	36.66	54.00	-17.34	Average
2	8814.957	12.36	38.50	55.17	40.36	36.05	54.00	-17.95	Average
3	11302.480	14.39	39.70	53.59	36.89	37.39	54.00	-16.61	Average
4	14242.800	16.83	39.80	54.38	36.26	38.51	54.00	-15.49	Average
5	16891.040	19.64	39.60	54.27	34.59	39.56	54.00	-14.44	Average
6	pp18000.000	18.64	43.80	54.50	35.25	43.19	54.00	-10.81	Average

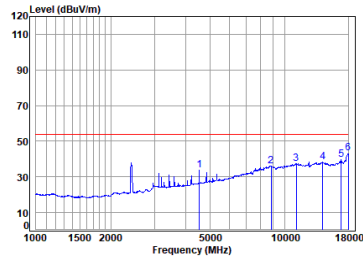
11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5330.928	9.39	32.76	56.50	56.55	42.20	74.00	-31.80	Peak
2	8995.123	12.10	38.59	55.00	52.78	48.47	74.00	-25.53	Peak
3	11108.160	14.13	39.51	53.53	49.89	50.00	74.00	-24.00	Peak
4	14242.800	16.83	39.80	54.38	48.85	51.10	74.00	-22.90	Peak
5	16891.040	19.64	39.60	54.27	46.61	51.58	74.00	-22.42	Peak
6	pp17948.050	18.75	43.44	54.49	47.24	54.94	74.00	-19.06	Peak

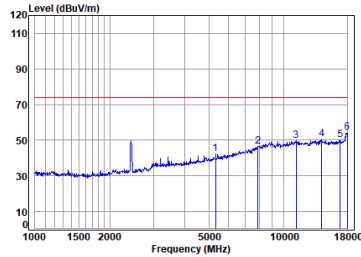
11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	49.53	33.67	54.00	-20.33	Average
2	8814.957	12.36	38.50	55.17	40.49	36.18	54.00	-17.82	Average
3	11140.310	14.17	39.54	53.54	37.33	37.50	54.00	-16.50	Average
4	14242.800	16.83	39.80	54.38	36.02	38.27	54.00	-15.73	Average
5	16891.040	19.64	39.60	54.27	34.58	39.55	54.00	-14.45	Average
6	pp18000.000	18.64	43.80	54.50	35.24	43.18	54.00	-10.82	Average

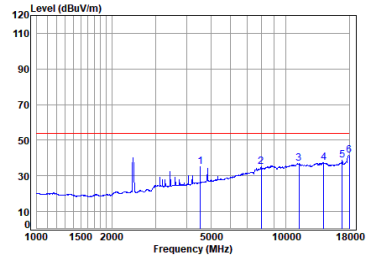
11n_HT(40M)_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5330.928	9.39	32.76	56.50	56.73	42.38	74.00	-31.62	Peak
2	7875.254	11.42	37.50	56.00	53.55	46.47	74.00	-27.53	Peak
3	11237.330	14.30	39.64	53.57	49.23	49.60	74.00	-24.40	Peak
4	14201.690	16.67	39.80	54.38	48.37	50.46	74.00	-23.54	Peak
5	16891.040	19.64	39.60	54.27	45.41	50.38	74.00	-23.62	Peak
6	pp18000.000	18.64	43.80	54.50	46.20	54.14	74.00	-19.86	Peak

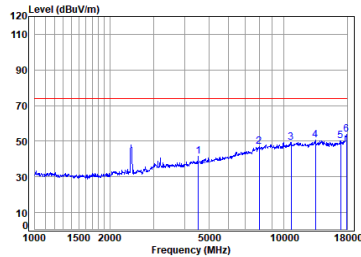
11n_HT(40M)_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	51.09	35.23	54.00	-18.77	Average
2	7966.832	11.47	37.73	55.93	42.03	35.30	54.00	-18.70	Average
3	11302.480	14.39	39.70	53.59	36.50	37.00	54.00	-17.00	Average
4	14242.800	16.83	39.80	54.38	35.31	37.56	54.00	-16.44	Average
5	16891.040	19.64	39.60	54.27	33.72	38.69	54.00	-15.31	Average
6	pp18000.000	18.64	43.80	54.50	33.79	41.73	54.00	-12.27	Average

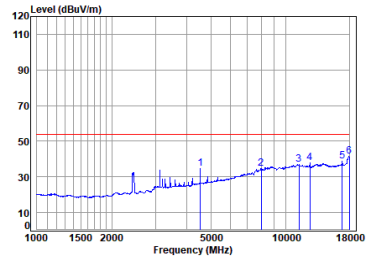
11n_HT(40M)_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	57.46	41.60	74.00	-32.40	Peak
2	7966.832	11.47	37.73	55.93	53.62	46.89	74.00	-27.11	Peak
3	10698.510	13.55	39.40	53.68	50.22	49.49	74.00	-24.51	Peak
4	13404.010	15.67	40.29	54.46	49.33	50.83	74.00	-23.17	Peak
5	16939.940	19.22	39.64	54.28	45.71	50.29	74.00	-23.71	Peak
6	pp17896.250	18.87	43.08	54.48	46.25	53.72	74.00	-20.28	Peak

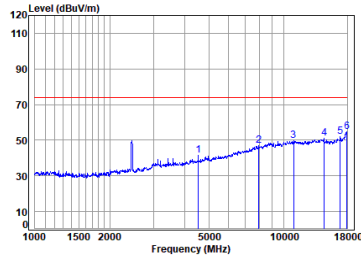
11n_HT(40M)_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	50.57	34.71	54.00	-19.29	Average
2	7966.832	11.47	37.73	55.93	41.38	34.65	54.00	-19.35	Average
3	11302.480	14.39	39.70	53.59	36.50	37.00	54.00	-17.00	Average
4	12505.710	14.87	39.91	54.15	37.39	38.02	54.00	-15.98	Average
5	16891.040	19.64	39.60	54.27	33.62	38.59	54.00	-15.41	Average
6	pp18000.000	18.64	43.80	54.50	33.61	41.55	54.00	-12.45	Average

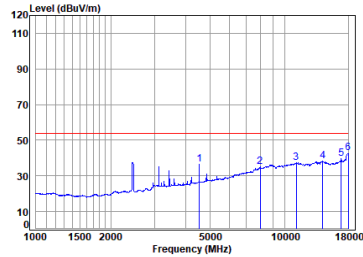
11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	57.44	41.58	74.00	-32.42	Peak
2	7943.838	11.48	37.69	55.94	53.79	47.82	74.00	-26.98	Peak
3	10948.780	13.91	39.35	53.53	49.94	49.67	74.00	-24.33	Peak
4	14533.910	16.36	39.43	54.35	49.60	51.04	74.00	-22.96	Peak
5	16891.040	19.64	39.60	54.27	46.98	51.95	74.00	-22.05	Peak
6	pp17948.050	18.75	43.44	54.49	46.88	54.58	74.00	-19.42	Peak

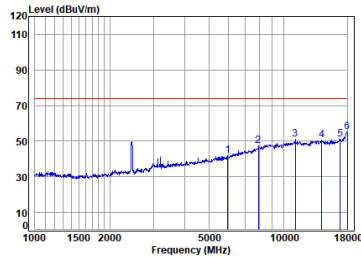
11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	52.37	36.51	54.00	-17.49	Average
2	7966.832	11.47	37.73	55.93	41.64	34.91	54.00	-19.09	Average
3	11140.310	14.17	39.54	53.54	37.11	37.28	54.00	-16.72	Average
4	14242.800	16.83	39.80	54.38	35.92	38.17	54.00	-15.83	Average
5	16891.040	19.64	39.60	54.27	34.78	39.75	54.00	-14.25	Average
6	pp18000.000	18.64	43.80	54.50	35.15	43.09	54.00	-10.91	Average

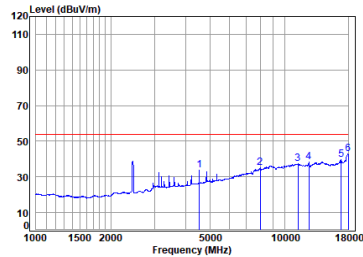
11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5949.811	10.01	33.60	56.87	55.37	42.11	74.00	-31.89	Peak
2	7920.911	11.48	37.69	55.96	54.24	47.40	74.00	-26.60	Peak
3	11140.310	14.17	39.54	53.54	50.73	50.90	74.00	-23.10	Peak
4	14242.800	16.83	39.80	54.38	48.38	50.63	74.00	-23.37	Peak
5	16891.040	19.64	39.60	54.27	46.17	51.14	74.00	-22.86	Peak
6	pp18000.000	18.64	43.80	54.50	47.31	55.25	74.00	-18.75	Peak

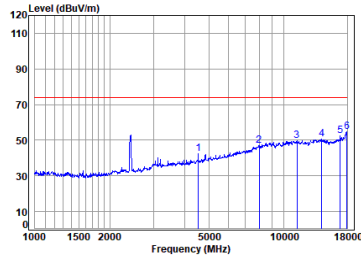
11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	49.60	33.74	54.00	-20.26	Average
2	7966.832	11.47	37.73	55.93	41.84	35.11	54.00	-18.89	Average
3	11302.480	14.39	39.70	53.59	36.77	37.27	54.00	-16.73	Average
4	12505.710	14.87	39.91	54.15	37.81	38.44	54.00	-15.56	Average
5	16891.040	19.64	39.60	54.27	34.71	39.68	54.00	-14.32	Average
6	pp18000.000	18.64	43.80	54.50	35.17	43.11	54.00	-10.89	Average

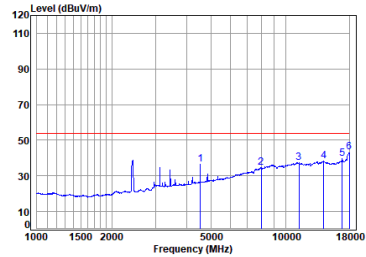
11ax_40M_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	58.33	42.47	74.00	-31.53	Peak
2	7989.893	11.46	37.78	55.91	53.64	46.97	74.00	-27.03	Peak
3	11302.480	14.39	39.70	53.59	49.13	49.63	74.00	-24.37	Peak
4	14242.800	16.83	39.80	54.38	48.58	50.83	74.00	-23.17	Peak
5	16891.040	19.64	39.60	54.27	47.68	52.65	74.00	-21.35	Peak
6	pp17948.050	18.75	43.44	54.49	47.13	54.83	74.00	-19.17	Peak

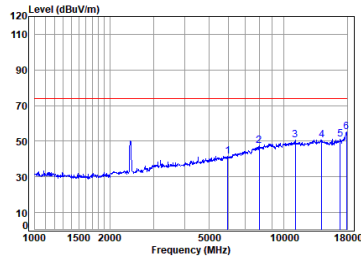
11ax_40M_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	52.41	36.55	54.00	-17.45	Average
2	7966.832	11.47	37.73	55.93	41.36	34.63	54.00	-19.37	Average
3	11302.480	14.39	39.70	53.59	36.86	37.36	54.00	-16.64	Average
4	14242.800	16.83	39.80	54.38	35.85	38.10	54.00	-15.90	Average
5	16891.040	19.64	39.60	54.27	34.80	39.77	54.00	-14.23	Average
6	pp18000.000	18.64	43.80	54.50	35.28	43.22	54.00	-10.78	Average

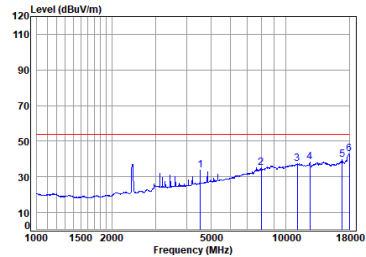
11ax_40M_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5967.033	10.03	33.67	56.88	54.82	41.64	74.00	-32.36	Peak
2	7966.832	11.47	37.73	55.93	54.07	47.34	74.00	-26.66	Peak
3	11140.310	14.17	39.54	53.54	50.29	50.46	74.00	-23.54	Peak
4	14201.690	16.67	39.80	54.38	48.62	50.71	74.00	-23.29	Peak
5	16891.040	19.64	39.60	54.27	46.29	51.26	74.00	-22.74	Peak
6	pp17896.250	18.87	43.08	54.48	47.95	55.42	74.00	-18.58	Peak

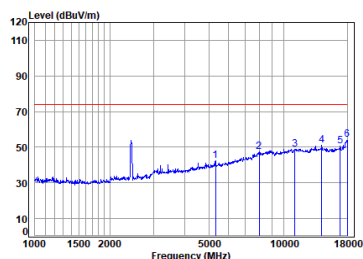
11ax_40M_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2422 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	49.84	33.98	54.00	-20.02	Average
2	7966.832	11.47	37.73	55.93	42.00	35.27	54.00	-18.73	Average
3	11140.310	14.17	39.54	53.54	37.15	37.32	54.00	-16.68	Average
4	12505.710	14.87	39.91	54.15	37.15	38.38	54.00	-15.62	Average
5	16891.040	19.64	39.60	54.27	34.64	39.61	54.00	-14.39	Average
6	pp18000.000	18.64	43.80	54.50	35.17	43.11	54.00	-10.89	Average

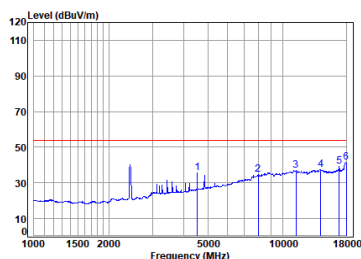
11ax_40M_TX_CH_06_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5330.928	9.39	32.76	56.50	56.78	42.43	74.00	-31.57	Peak
2	7966.832	11.47	37.73	55.93	54.06	47.33	74.00	-26.67	Peak
3	11108.160	14.13	39.51	53.53	48.76	48.87	74.00	-25.13	Peak
4	14242.800	16.83	39.80	54.38	48.63	50.88	74.00	-23.12	Peak
5	16891.040	19.64	39.60	54.27	45.51	50.48	74.00	-23.52	Peak
6	pp18000.000	18.64	43.80	54.50	46.22	54.16	74.00	-19.84	Peak

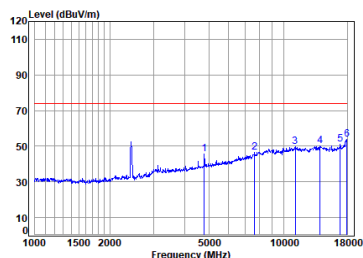
11ax_40M_TX_CH_06_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	51.26	35.40	54.00	-18.60	Average
2	7966.832	11.47	37.73	55.93	41.55	34.82	54.00	-19.18	Average
3	11302.480	14.39	39.70	53.59	36.54	37.04	54.00	-16.96	Average
4	14242.800	16.83	39.80	54.38	35.09	37.34	54.00	-16.66	Average
5	16891.040	19.64	39.60	54.27	34.05	39.02	54.00	-14.98	Average
6	pp18000.000	18.64	43.80	54.50	33.78	41.72	54.00	-12.28	Average

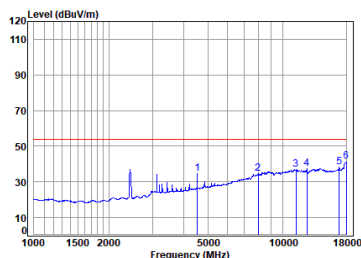
11ax_40M_TX_CH_06_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4790.245	8.89	31.88	56.15	61.09	45.71	74.00	-28.29	Peak
2	7628.806	11.08	36.86	56.20	55.00	46.74	74.00	-27.26	Peak
3	11140.310	14.17	39.54	53.54	49.42	49.59	74.00	-24.41	Peak
4	13997.930	16.53	39.90	54.40	48.14	50.17	74.00	-23.83	Peak
5	16891.040	19.64	39.60	54.27	45.92	50.89	74.00	-23.11	Peak
6	pp17948.050	18.75	43.44	54.49	46.30	54.00	74.00	-20.00	Peak

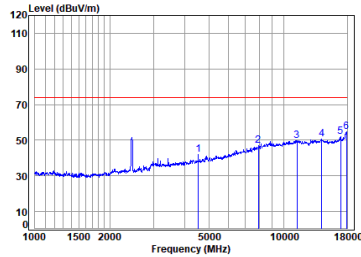
11ax_40M_TX_CH_06_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2437 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	50.70	34.84	54.00	-19.16	Average
2	7966.832	11.47	37.73	55.93	41.54	34.81	54.00	-19.19	Average
3	11302.480	14.39	39.70	53.59	36.41	36.91	54.00	-17.09	Average
4	12505.710	14.87	39.91	54.15	36.81	37.44	54.00	-16.56	Average
5	16891.040	19.64	39.60	54.27	33.57	38.54	54.00	-15.46	Average
6	pp18000.000	18.64	43.80	54.50	33.73	41.67	54.00	-12.33	Average

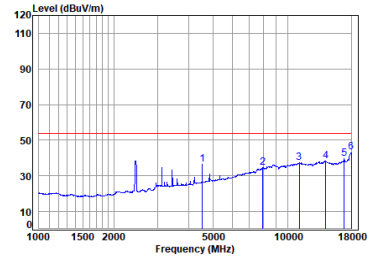
11ax_40M_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	57.92	42.06	74.00	-31.94	Peak
2	7920.911	11.48	37.64	55.96	53.84	47.00	74.00	-27.00	Peak
3	11302.480	14.39	39.70	53.59	49.41	49.91	74.00	-24.09	Peak
4	14201.690	16.67	39.80	54.38	48.51	50.60	74.00	-23.40	Peak
5	16939.940	19.22	39.64	54.28	47.48	52.06	74.00	-21.94	Peak
6	pp17896.250	18.87	43.08	54.48	47.48	54.95	74.00	-19.05	Peak

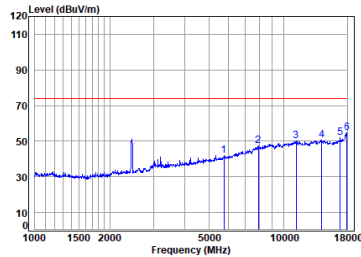
11ax_40M_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	52.15	36.29	54.00	-17.71	Average
2	7943.838	11.48	37.69	55.94	41.42	34.65	54.00	-19.35	Average
3	11140.310	14.17	39.54	53.54	37.10	37.27	54.00	-16.73	Average
4	14242.800	16.83	39.80	54.38	35.99	38.24	54.00	-15.76	Average
5	16891.040	19.64	39.60	54.27	34.67	39.64	54.00	-14.36	Average
6	pp18000.000	18.64	43.80	54.50	35.25	43.19	54.00	-10.81	Average

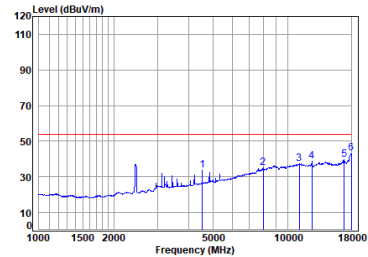
11ax_40M_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5763.617	9.99	33.33	56.76	55.43	41.99	74.00	-32.01	Peak
2	7898.049	11.48	37.59	55.98	54.49	47.58	74.00	-26.42	Peak
3	11204.900	14.25	39.60	53.56	50.09	50.38	74.00	-23.62	Peak
4	14242.800	16.83	39.80	54.38	48.57	50.82	74.00	-23.18	Peak
5	16891.040	19.64	39.60	54.27	47.23	52.20	74.00	-21.80	Peak
6	pp17948.050	18.75	43.44	54.49	47.23	54.93	74.00	-19.07	Peak

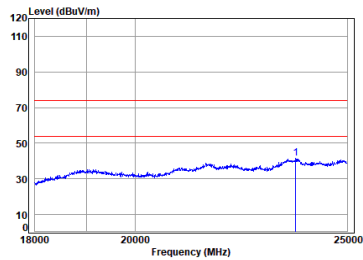
11ax_40M_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE
: 2.4G Wi-Fi 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4534.271	8.58	31.53	55.97	49.55	33.69	54.00	-20.31	Average
2	7966.832	11.47	37.73	55.93	42.06	35.33	54.00	-18.67	Average
3	11140.310	14.17	39.54	53.54	37.17	37.34	54.00	-16.66	Average
4	12505.710	14.87	39.91	54.15	38.12	38.75	54.00	-15.25	Average
5	16891.040	19.64	39.60	54.27	34.66	39.63	54.00	-14.37	Average
6	pp18000.000	18.64	43.80	54.50	35.23	43.17	54.00	-10.83	Average

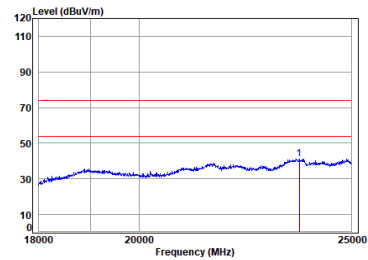
11ax_40M_TX_CH_09_Horizontal



Condition: 3m HORIZONTAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE

Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23680.990	6.77	38.66	50.34	55.97	41.52	74.00	-32.48	Peak	-9.54

11ax_40M_TX_CH_09_Vertical



Condition: 3m VERTICAL
Job No : 05363TL/05364TL
Mode : 2452 TX RSE

Freq	Cable Loss	Ant Factor	Preamp	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23673.210	6.77	38.65	50.33	55.61	41.16	74.00	-32.84	Peak	-9.54



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 64 of 230

7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.2

Test Engineer: Mingli Hu

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

Humidity: 54.4 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



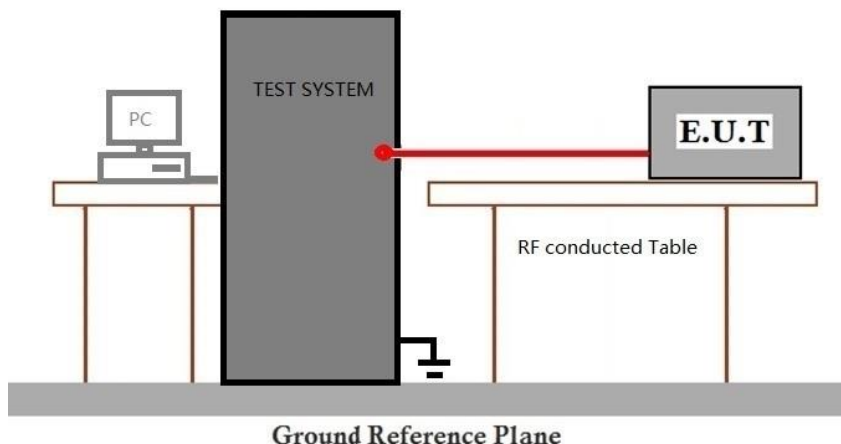
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2020) Section 11.8.1
 Test Engineer: Mingli Hu

Limit:
 ≥500 kHz

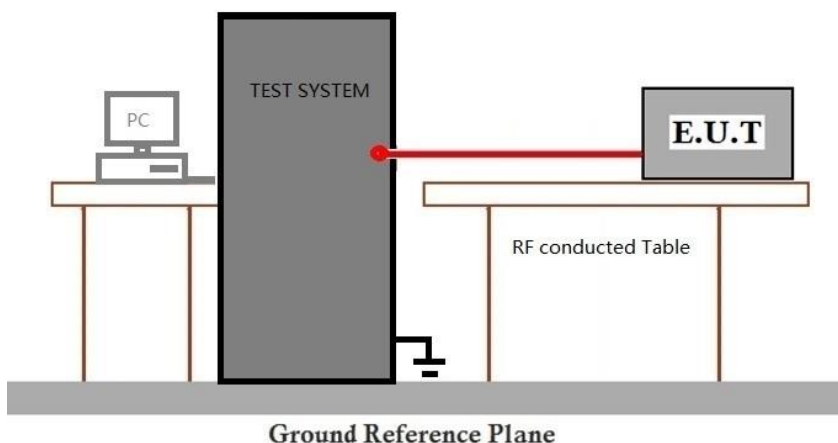
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.6 °C Humidity: 54.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2020) Section 11.10.2
 Test Engineer: Mingli Hu

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

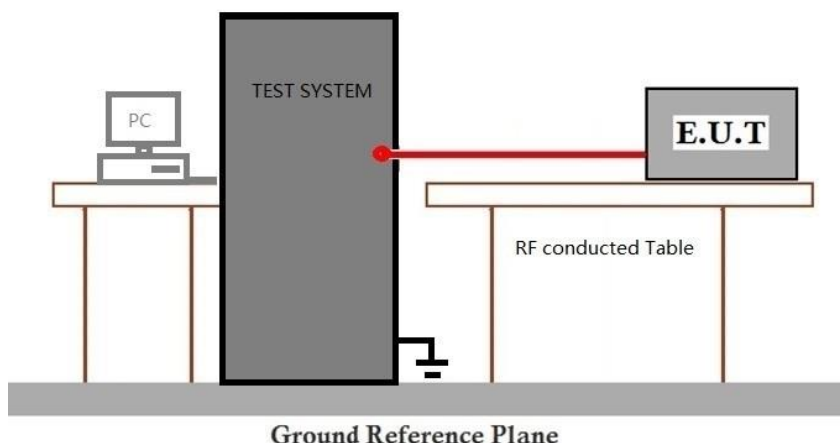
Operating Environment:

Temperature: 25.6 °C Humidity: 54.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 6.10.4
 Test Engineer: Mingli Hu

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.1 E.U.T. Operation

Operating Environment:

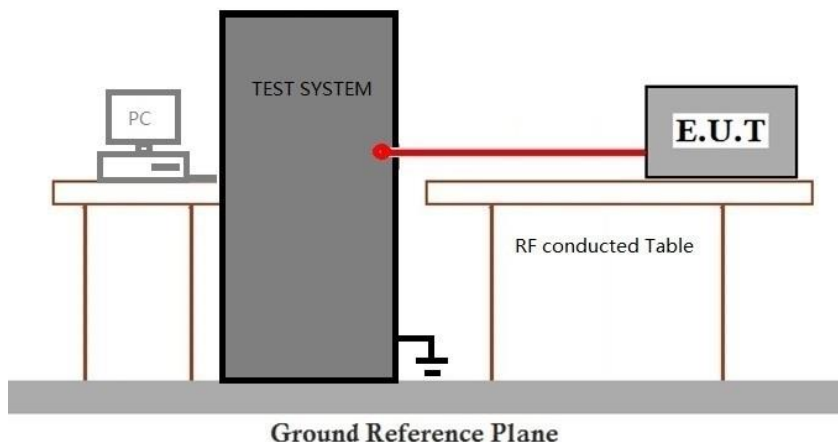
Temperature: 25.6 °C Humidity: 54.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 11.11
 Test Engineer: Mingli Hu

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 54.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



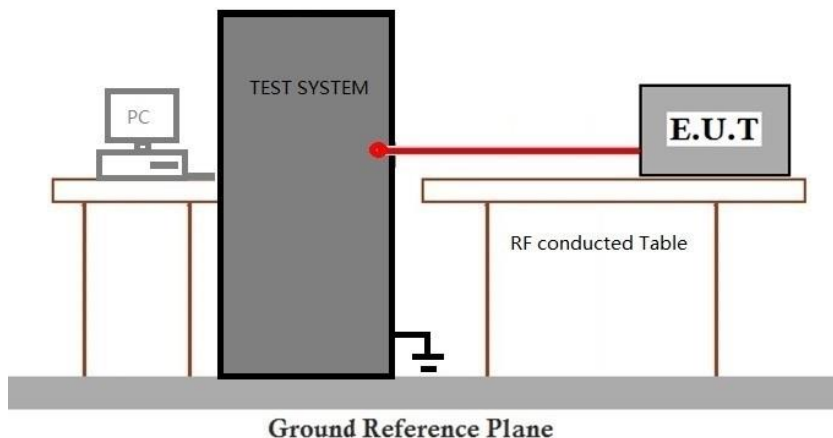
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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 Inspection Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2512005363TL

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2512005363TL



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.413	8.470	99.33	0.03	0.00
		2437	/	/	8.414	8.470	99.34	0.03	0.04
		2462	/	/	8.413	8.470	99.33	0.03	0.04
802.11g	SISO	2412	/	/	1.396	1.453	96.08	0.17	0.07
		2437	/	/	1.397	1.453	96.15	0.17	0.07
		2462	/	/	1.396	1.452	96.14	0.17	0.04
802.11n (HT20)	MIMO	2412	/	/	1.309	1.366	95.83	0.19	0.07
		2437	/	/	1.309	1.365	95.90	0.18	0.03
		2462	/	/	1.308	1.364	95.89	0.18	0.04
802.11n (HT40)	MIMO	2422	/	/	0.649	0.706	91.93	0.37	0.13
		2437	/	/	0.648	0.705	91.91	0.37	0.10
		2452	/	/	0.648	0.705	91.91	0.37	0.06
802.11ax (HEW20)	MIMO	2412	RU242	Left	0.684	0.742	92.18	0.35	0.06
		2437	RU242	Left	0.684	0.741	92.31	0.35	0.03
		2462	RU242	Left	0.685	0.741	92.44	0.34	0.12
802.11ax (HEW40)	MIMO	2422	RU484	Left	0.206	0.260	79.23	1.01	0.12
		2437	RU484	Left	0.203	0.260	78.08	1.07	0.09
		2452	RU484	Left	0.204	0.260	78.46	1.05	0.11



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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.

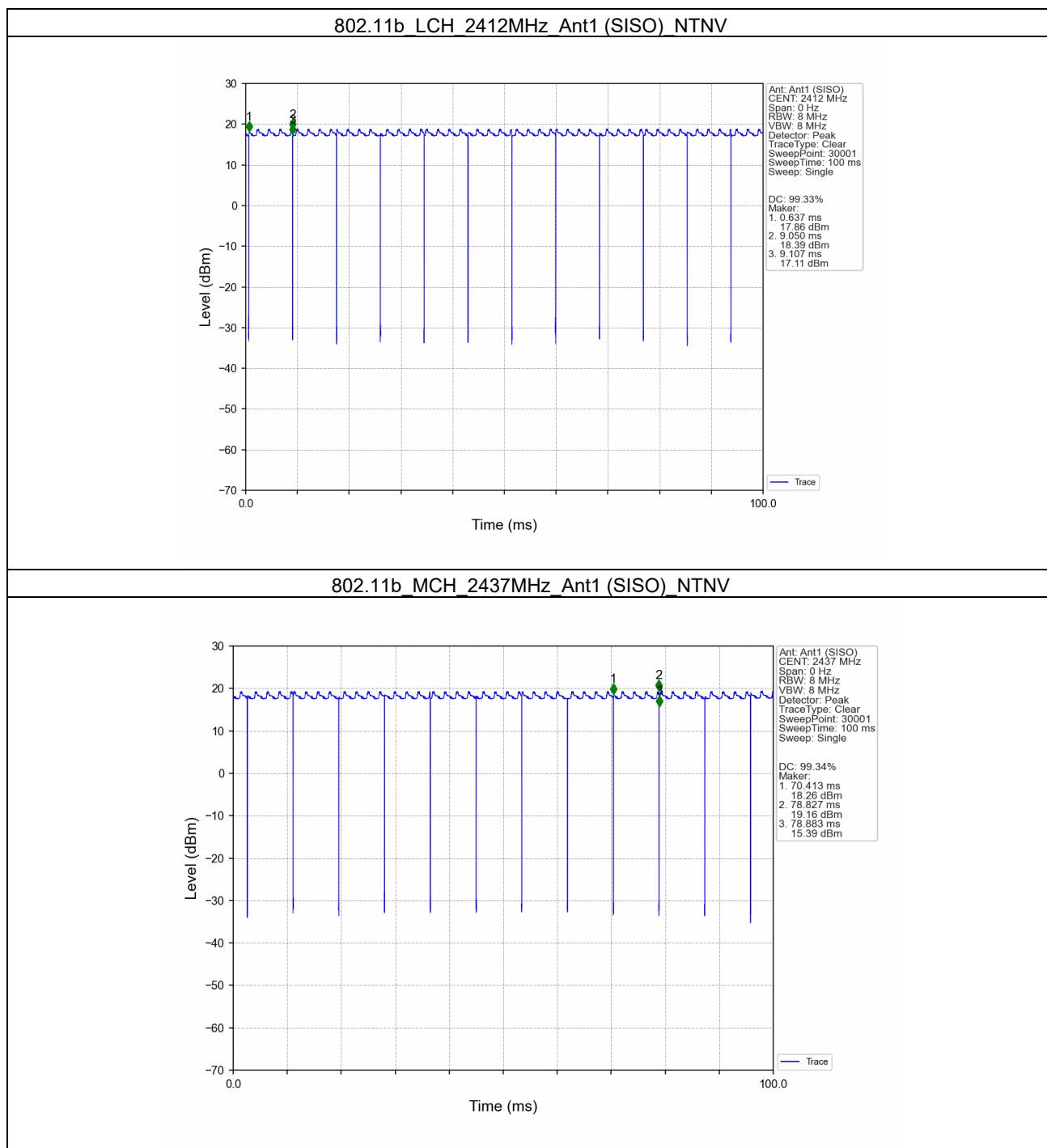
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

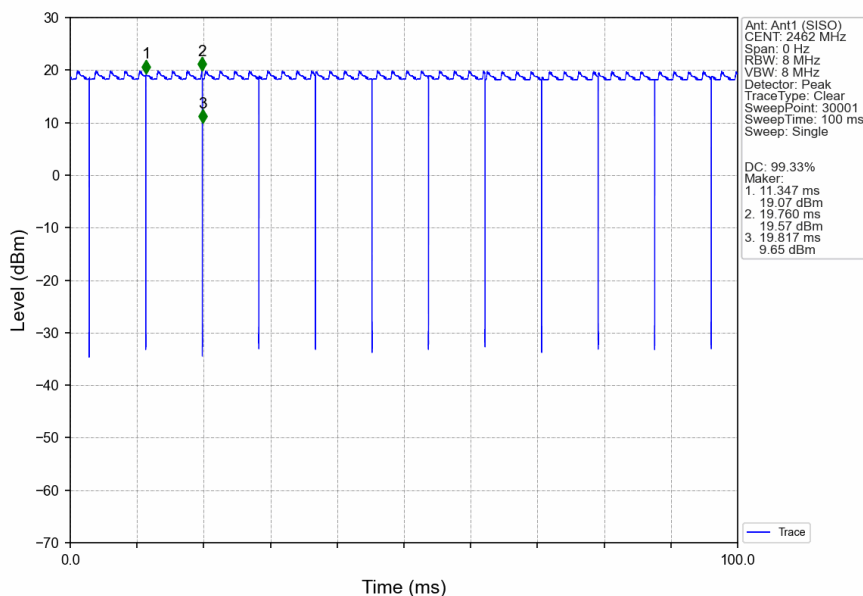
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2 Test Graph

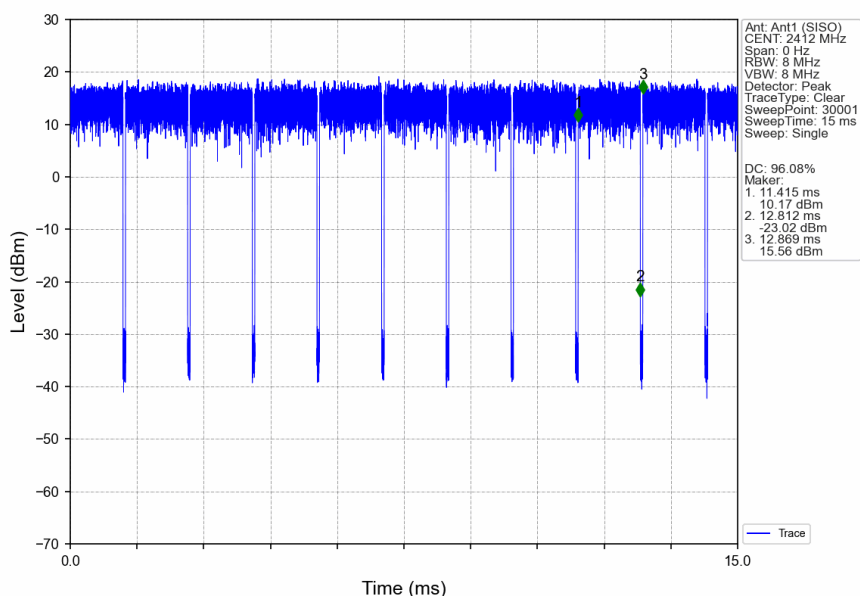
1.2.1 Ant1



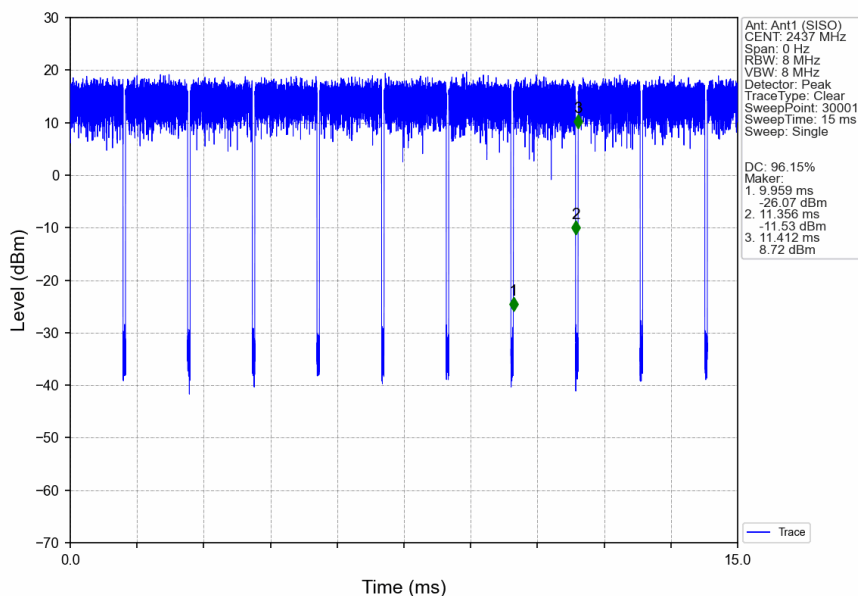
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



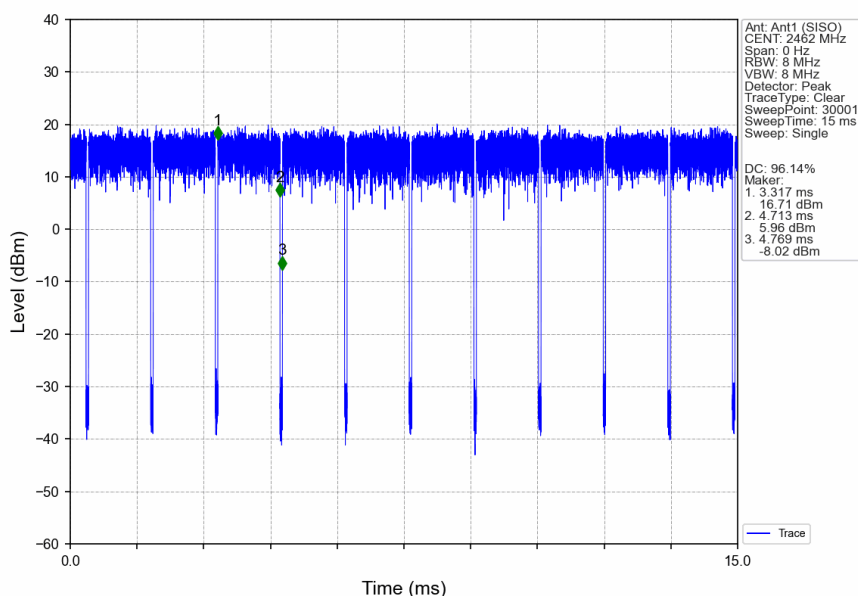
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



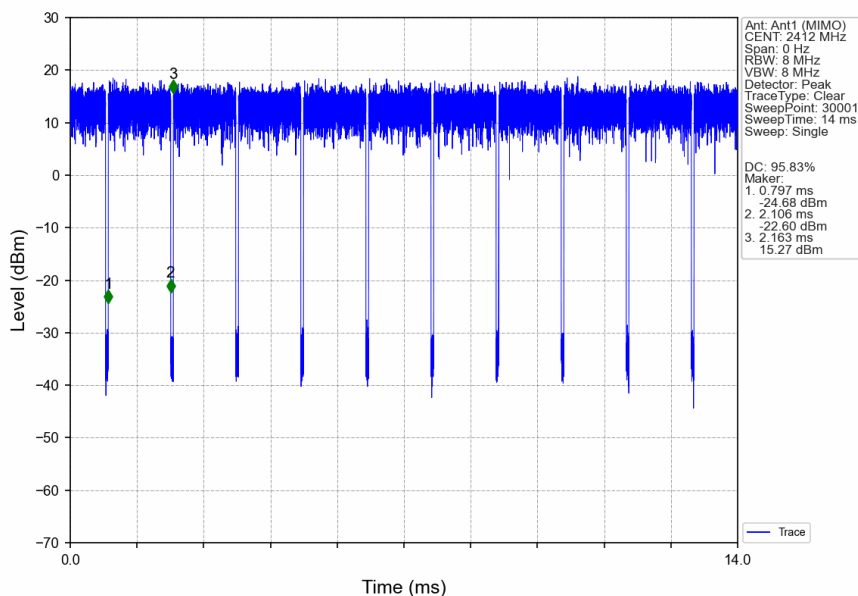
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

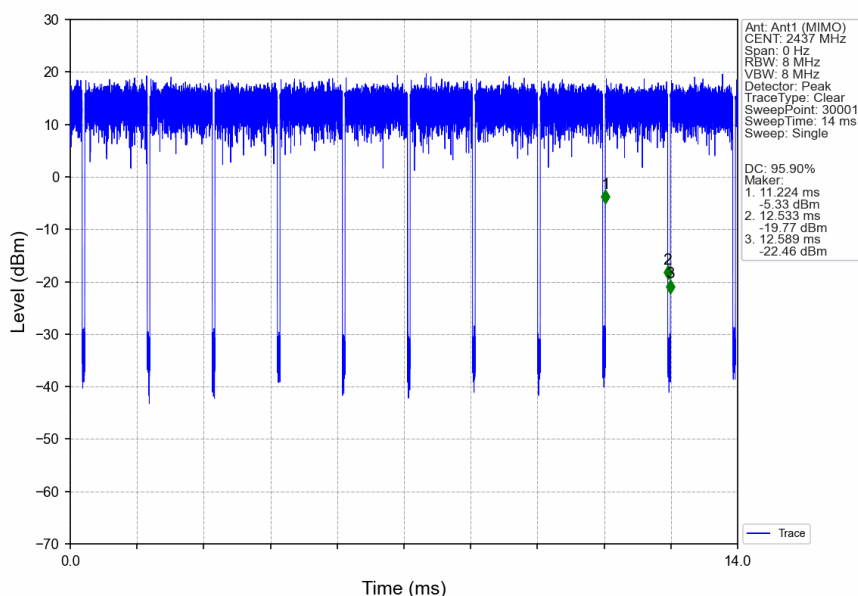
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



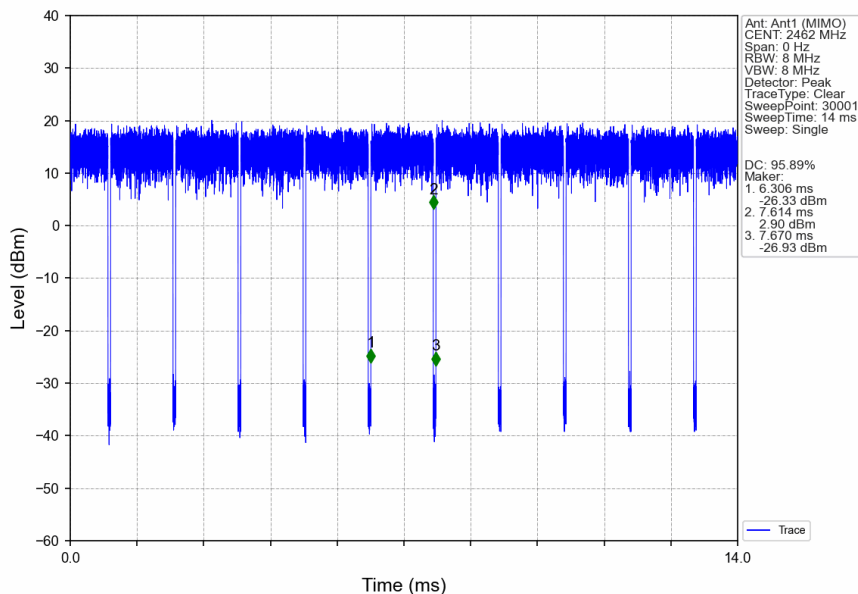
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

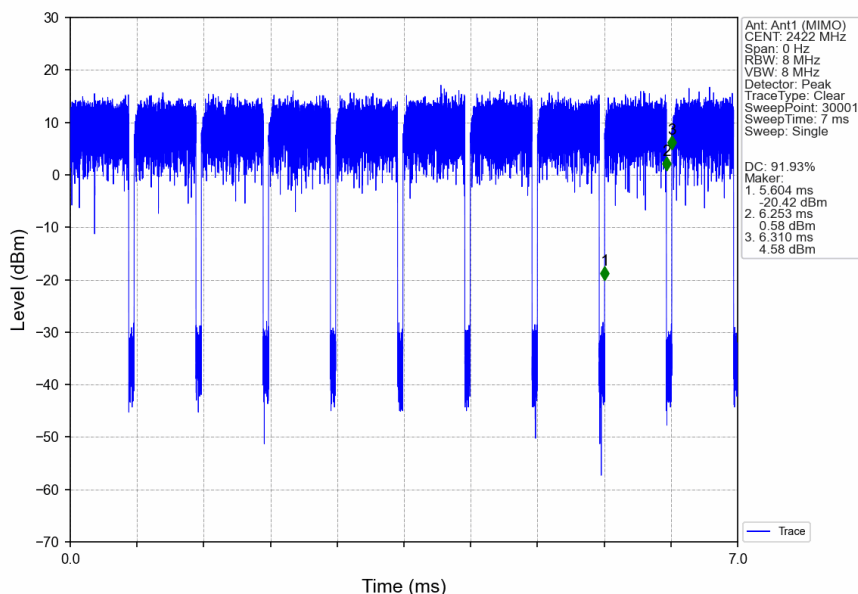
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

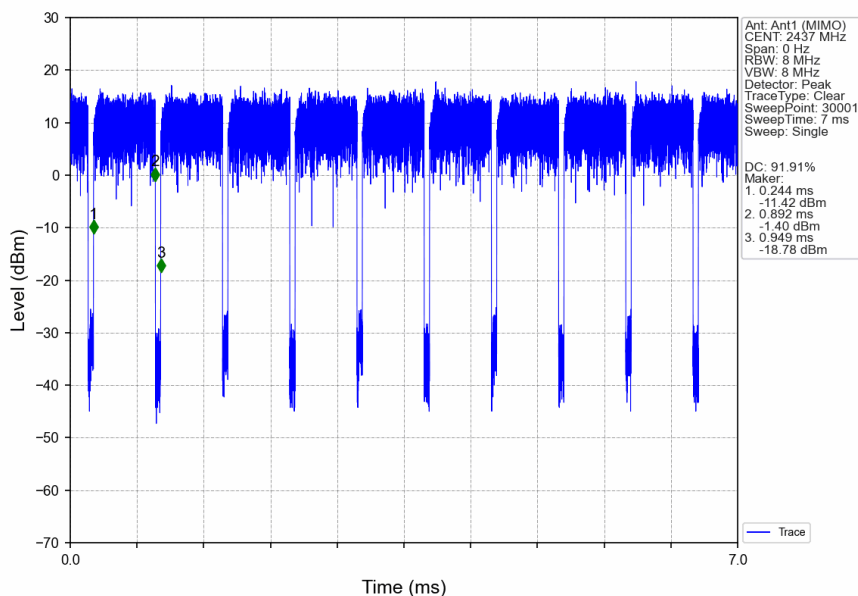
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



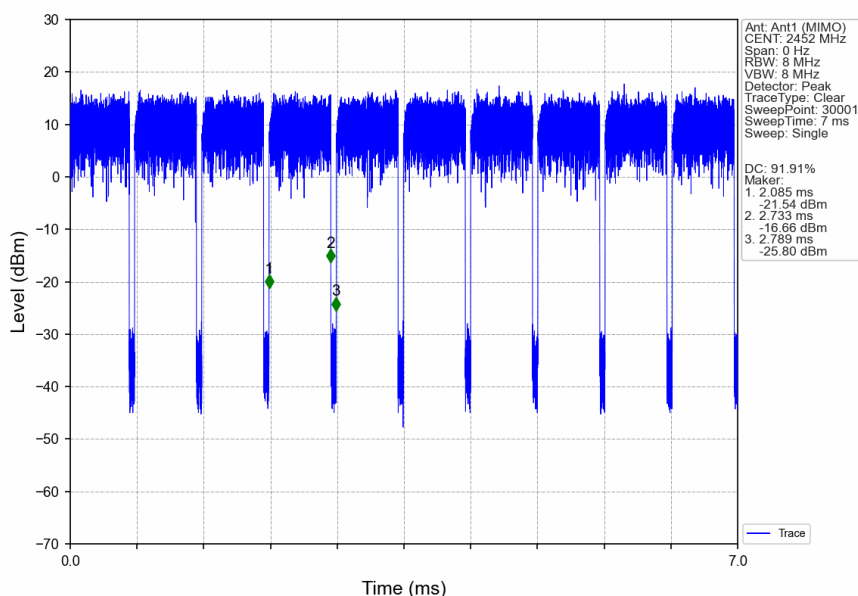
802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



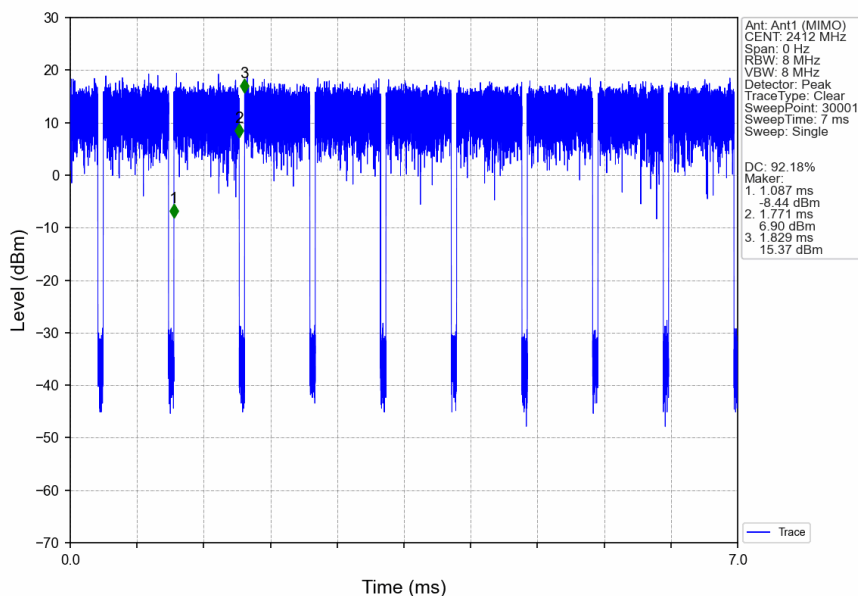
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

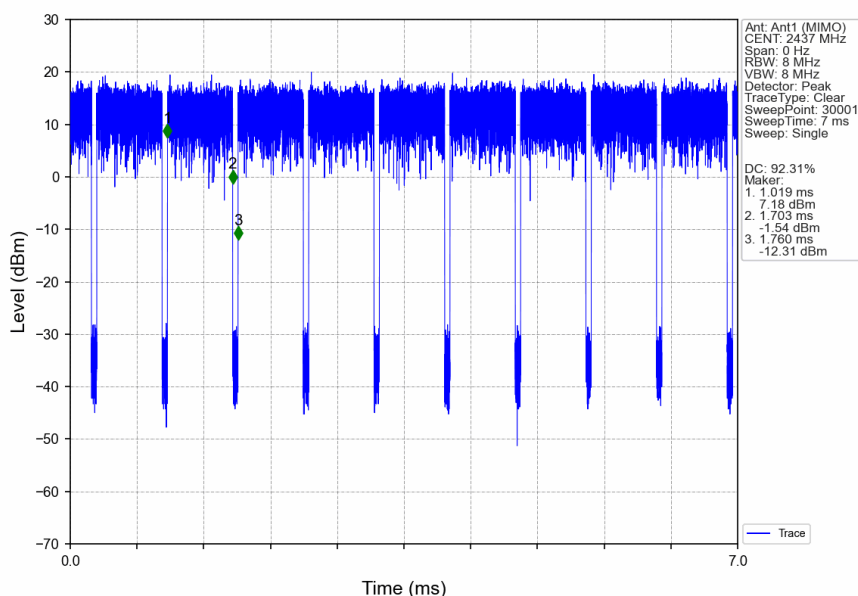
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

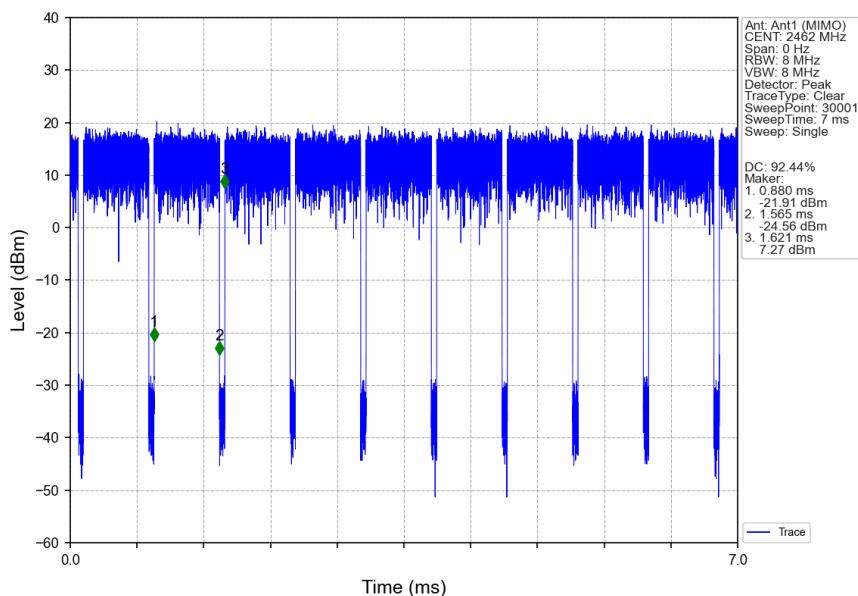
802.11ax(HEW20) LCH 2412MHz RU242 Left Ant1 (MIMO) NTN



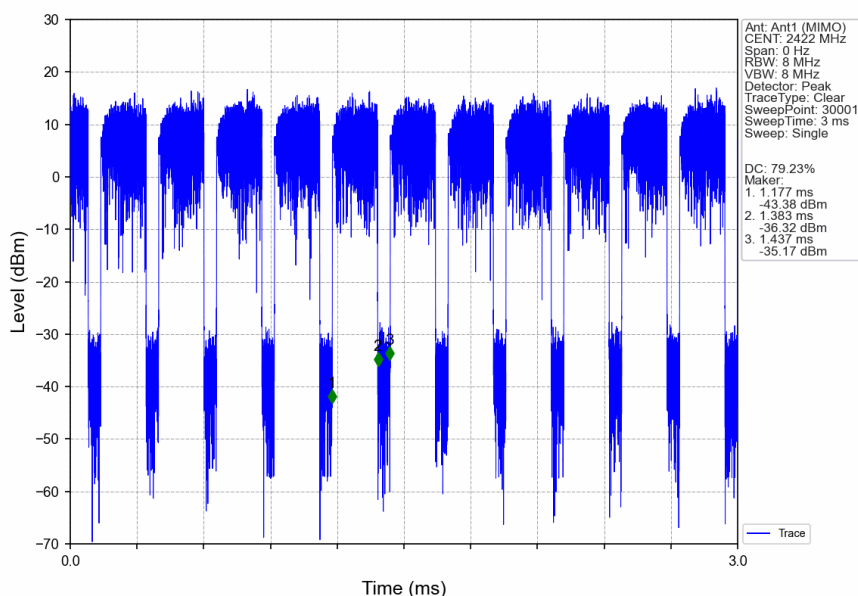
802.11ax(HEW20) MCH 2437MHz RU242 Left Ant1 (MIMO) NTN



802.11ax(HEW20) HCH 2462MHz RU242 Left Ant1 (MIMO) NTN



802.11ax(HEW40) LCH 2422MHz RU484 Left Ant1 (MIMO) NTN



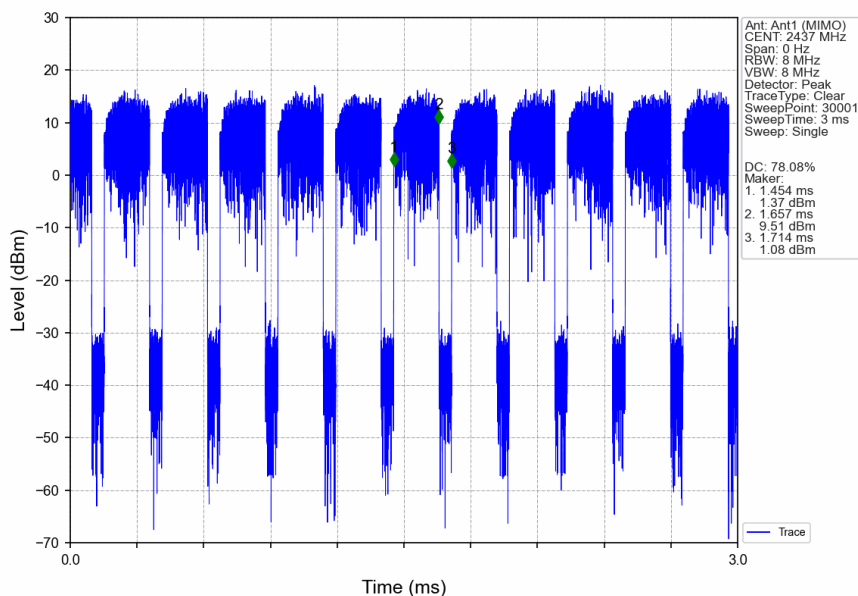
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

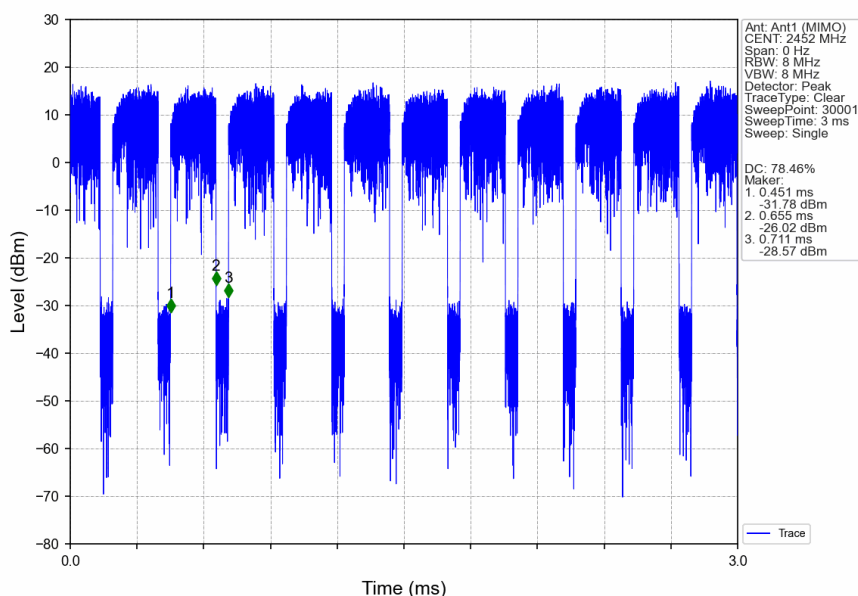
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11ax(HEW40) MCH 2437MHz RU484 Left Ant1 (MIMO) NTNV



802.11ax(HEW40) HCH 2452MHz RU484 Left Ant1 (MIMO) NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.778	/	Pass
		2437	/	/	1	12.719	/	Pass
		2462	/	/	1	12.781	/	Pass
802.11g	SISO	2412	/	/	1	17.826	/	Pass
		2437	/	/	1	17.938	/	Pass
		2462	/	/	1	17.864	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	18.600	/	Pass
		2437	/	/	1	19.034	/	Pass
		2462	/	/	1	18.834	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.845	/	Pass
		2437	/	/	1	37.010	/	Pass
		2452	/	/	1	37.038	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.697	/	Pass
		2437	RU242	Left	1	19.002	/	Pass
		2462	RU242	Left	1	18.835	/	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	38.052	/	Pass
		2437	RU484	Left	1	38.176	/	Pass
		2452	RU484	Left	1	38.081	/	Pass



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200536302

Page: 84 of 230

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.238	>=0.5	Pass
		2437	/	/	1	8.237	>=0.5	Pass
		2462	/	/	1	8.237	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.813	>=0.5	Pass
		2437	/	/	1	16.149	>=0.5	Pass
		2462	/	/	1	16.459	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.679	>=0.5	Pass
		2437	/	/	1	17.521	>=0.5	Pass
		2462	/	/	1	17.753	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.892	>=0.5	Pass
		2437	/	/	1	35.700	>=0.5	Pass
		2452	/	/	1	35.862	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	17.839	>=0.5	Pass
		2437	RU242	Left	1	17.277	>=0.5	Pass
		2462	RU242	Left	1	17.726	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.160	>=0.5	Pass
		2437	RU484	Left	1	37.062	>=0.5	Pass
		2452	RU484	Left	1	37.377	>=0.5	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 <https://www.sgs.com/en/Terms-and-Conditions>. 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.

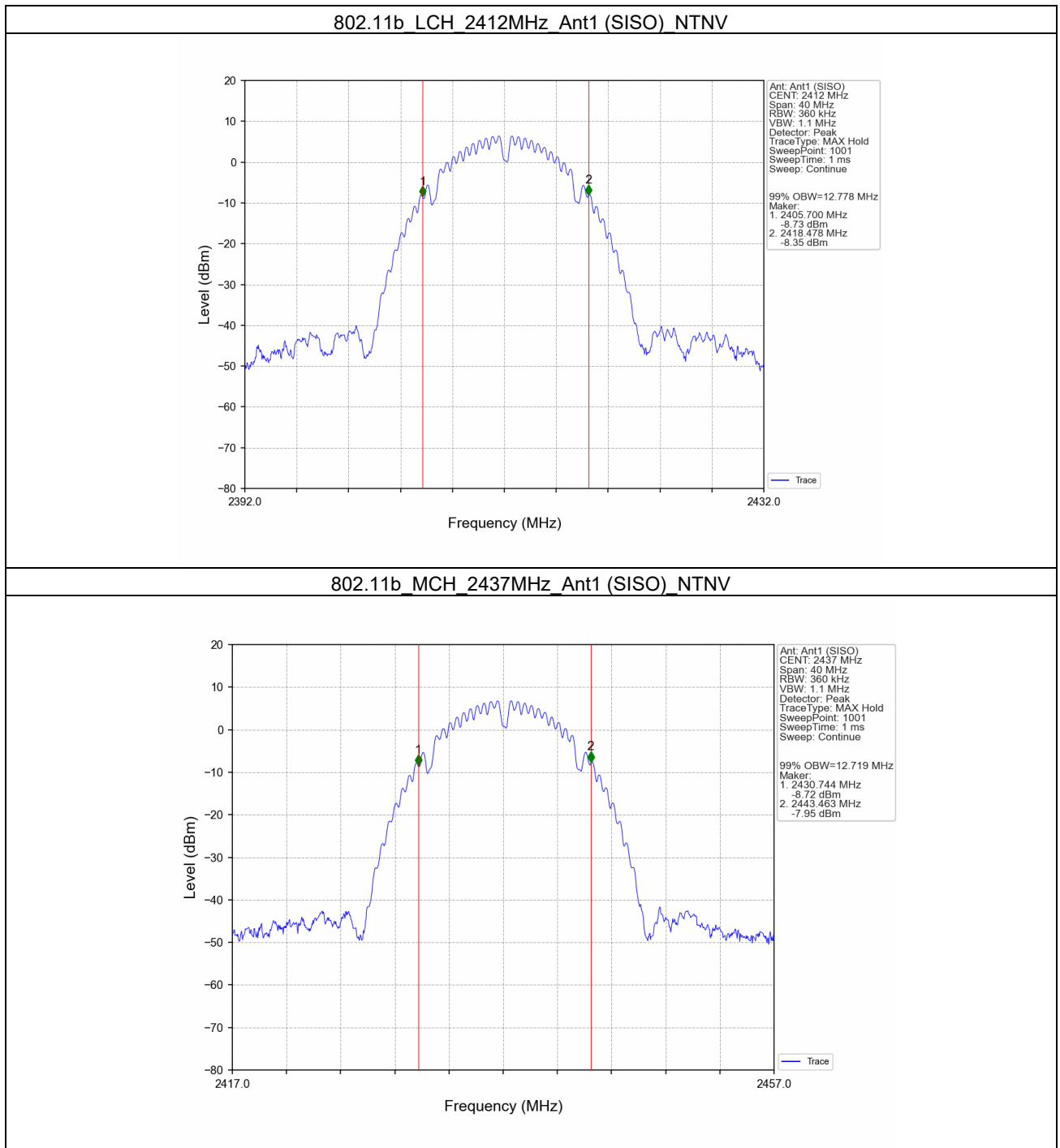
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

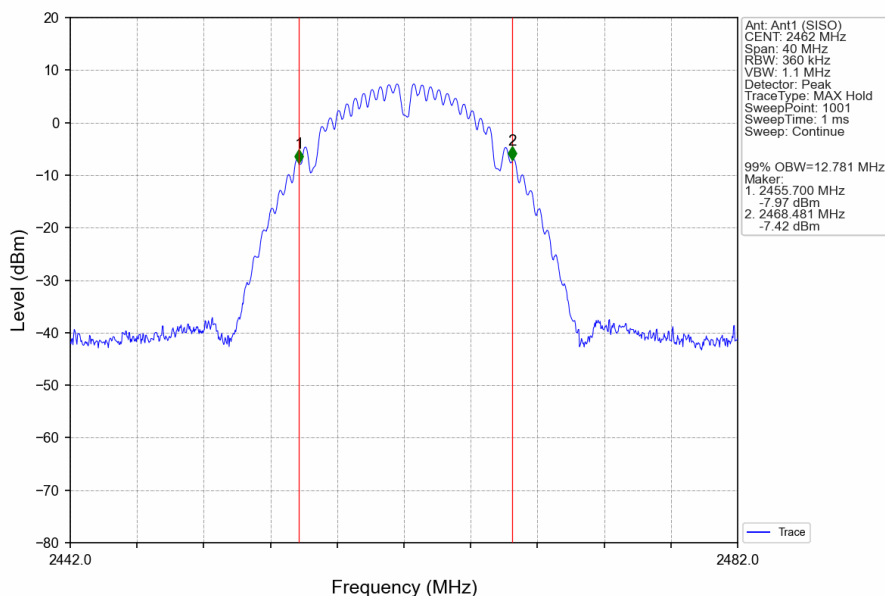
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.2 Test Graph

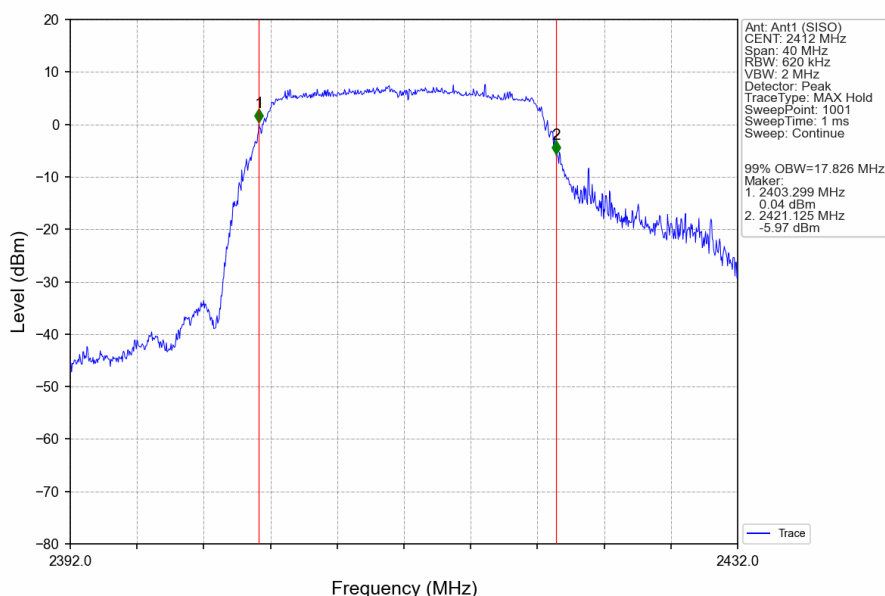
2.2.1 OBW



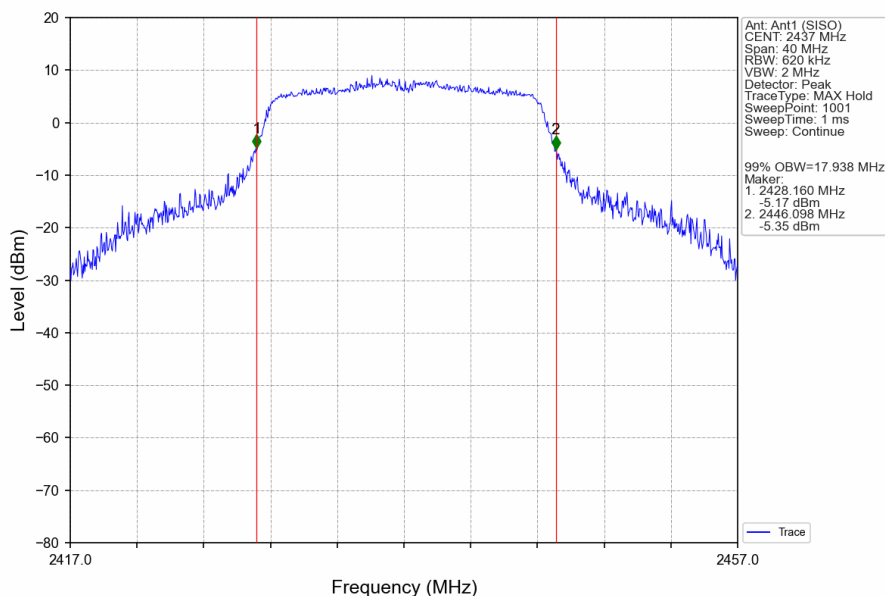
802.11b HCH 2462MHz Ant1 (SISO) NTN



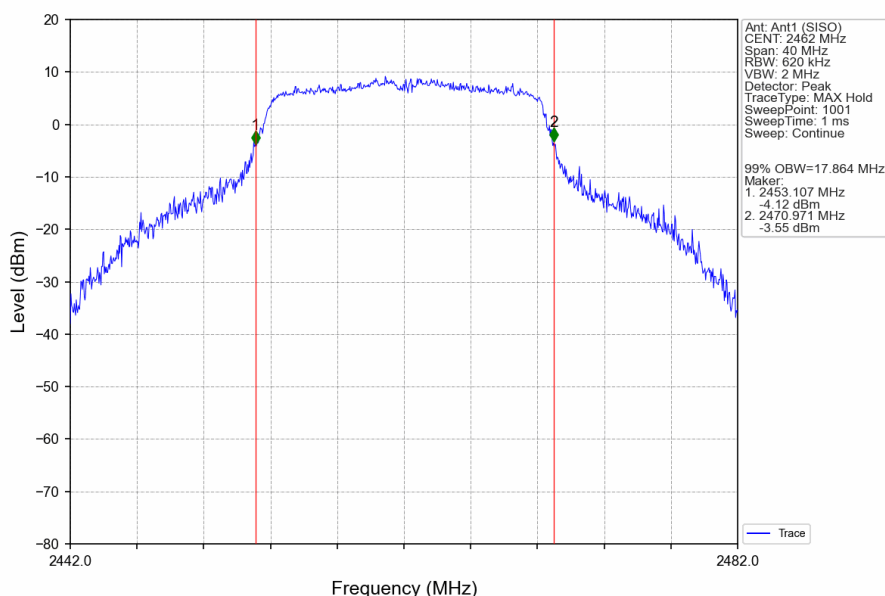
802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g_MCH_2437MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant1 (SISO) NTN



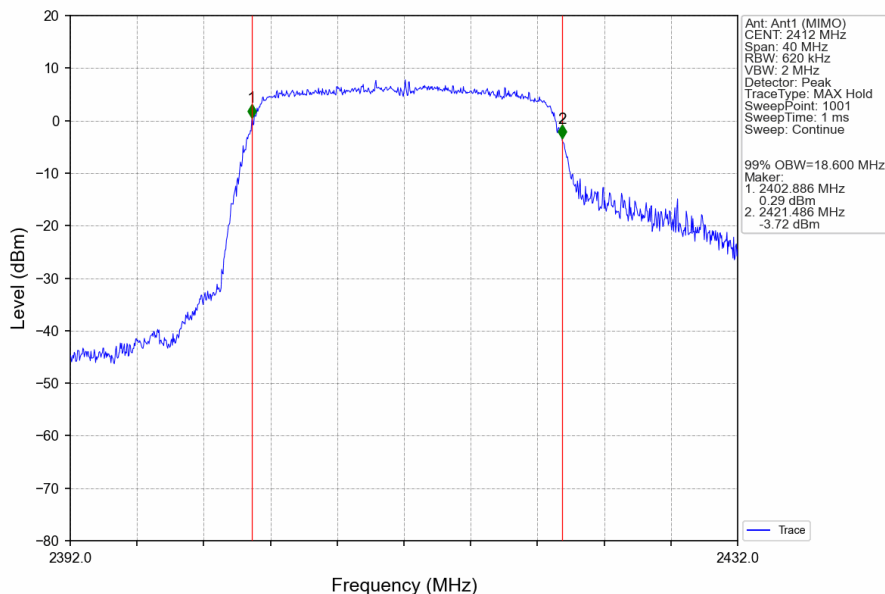
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

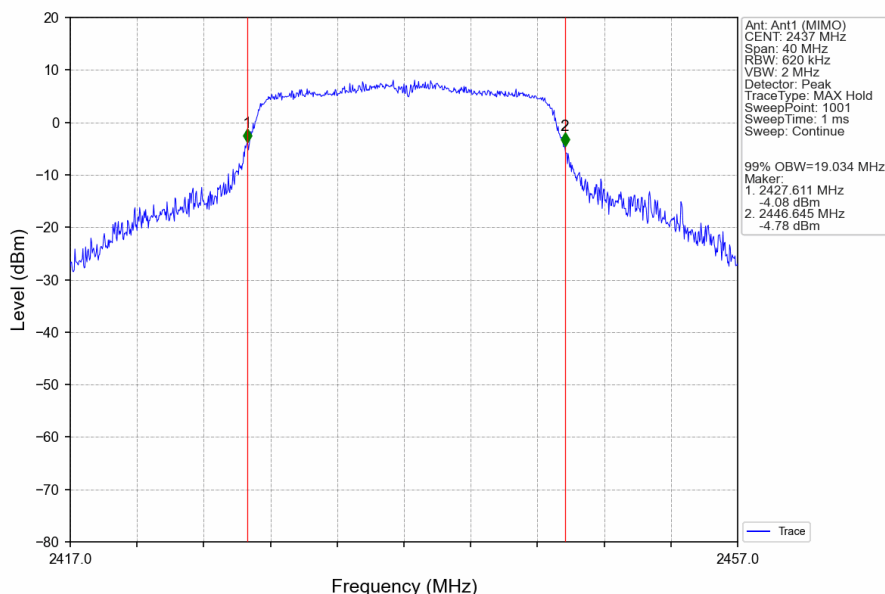
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



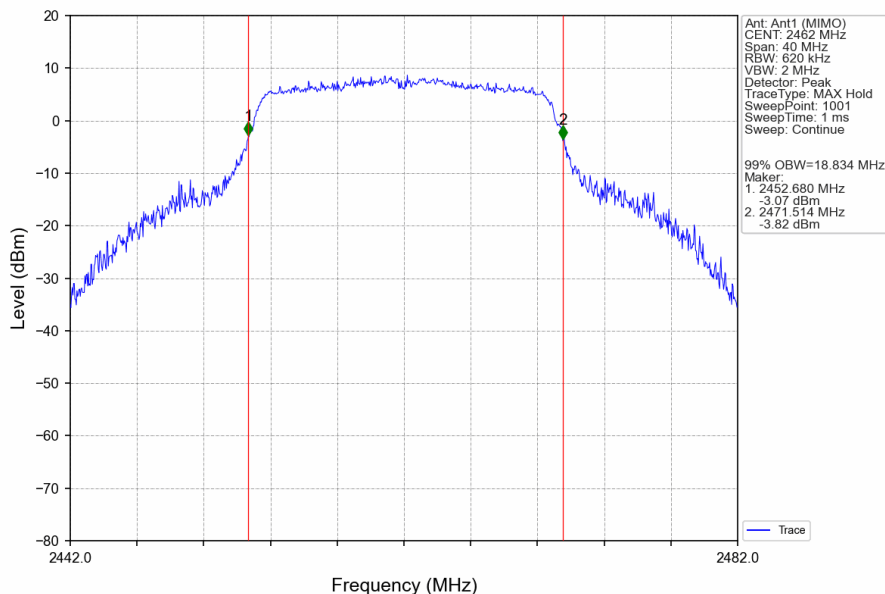
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

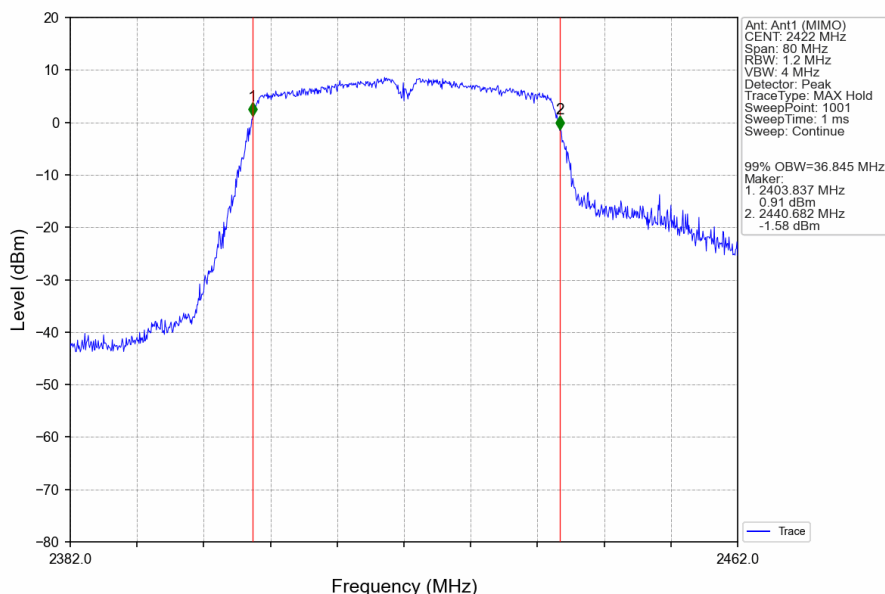
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



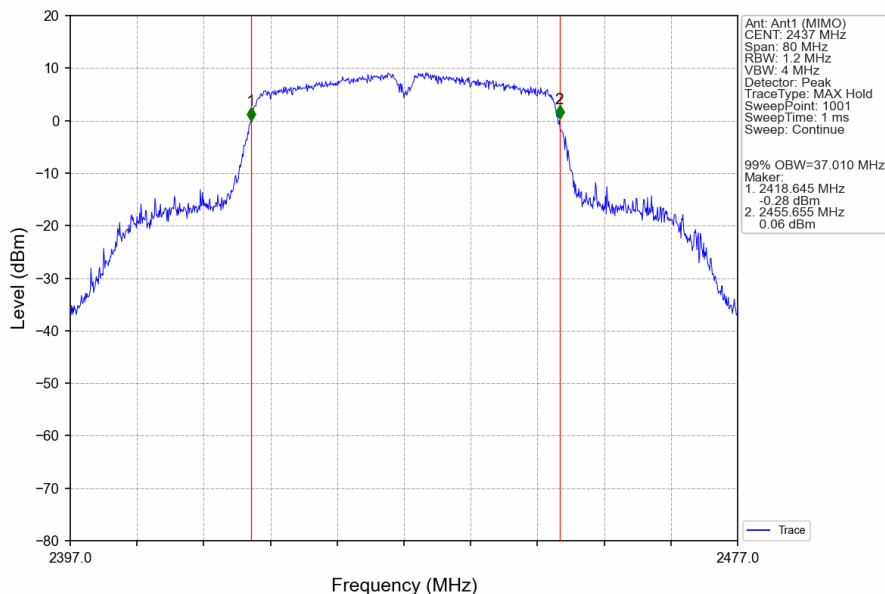
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

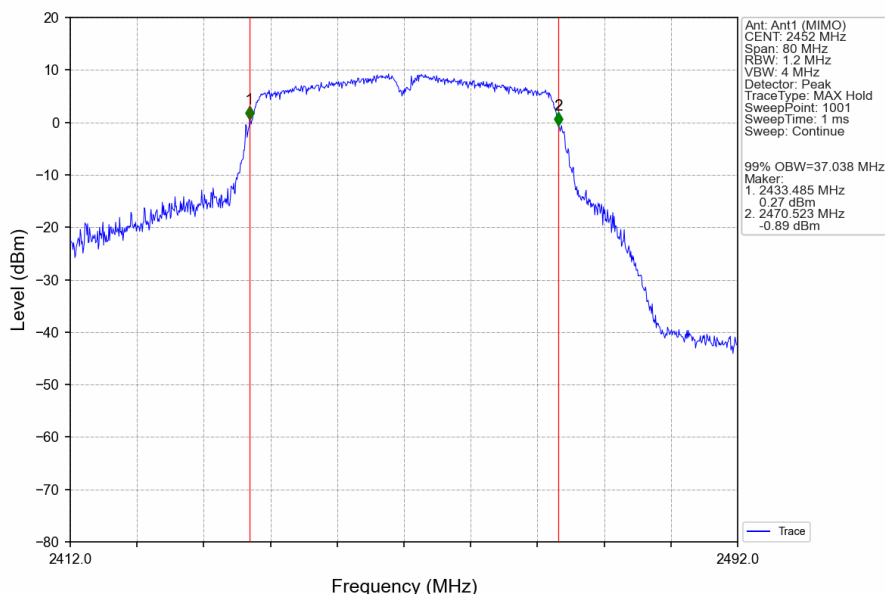
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



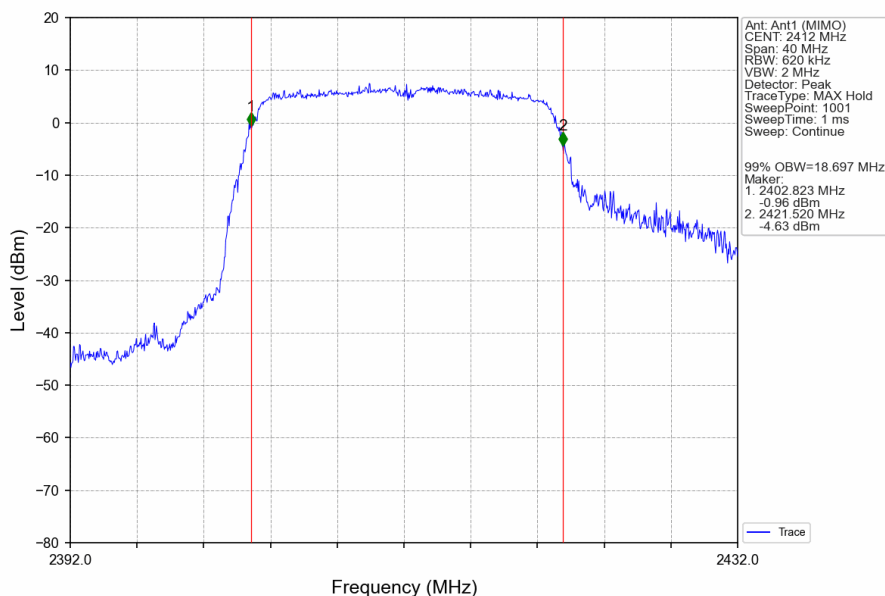
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

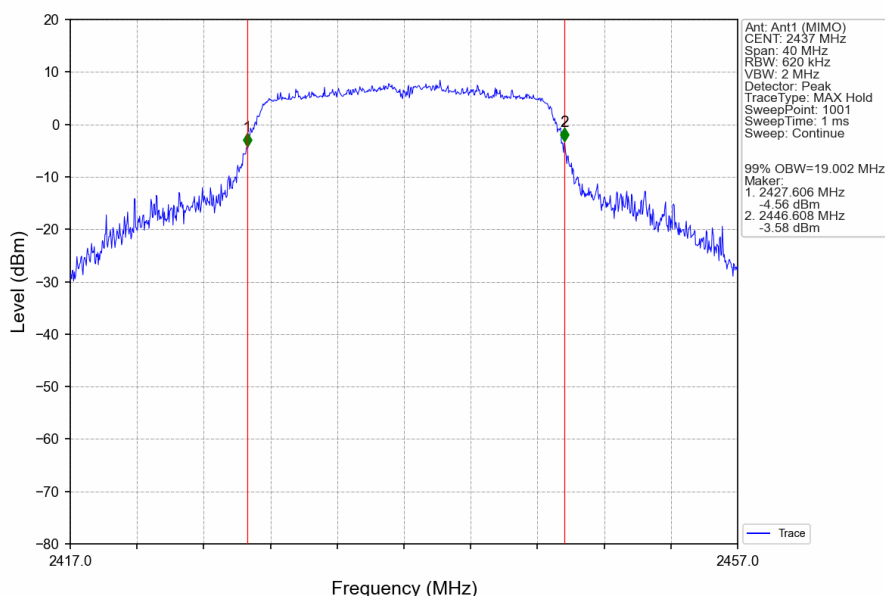
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11ax(HEW20) LCH 2412MHz RU242 Left Ant1 (MIMO) NTN



802.11ax(HEW20) MCH 2437MHz RU242 Left Ant1 (MIMO) NTN



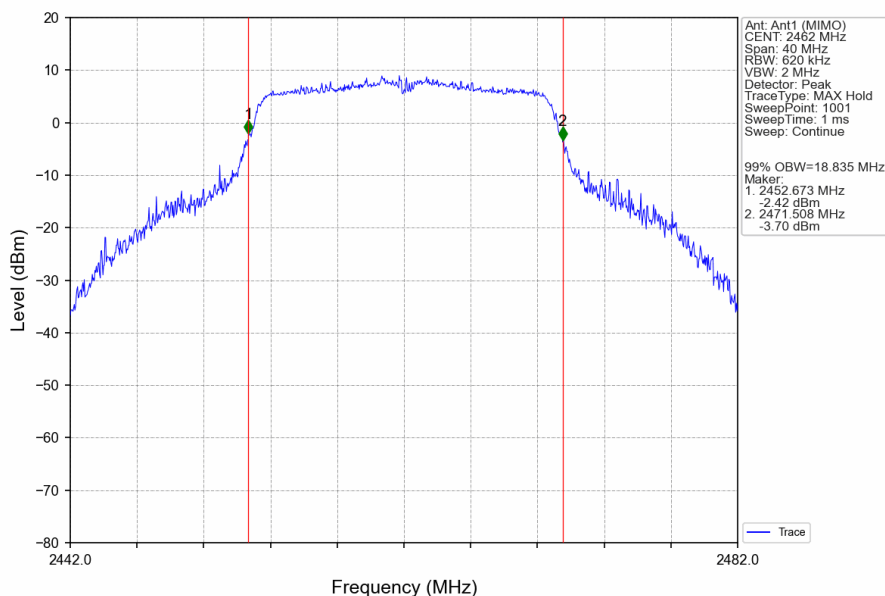
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

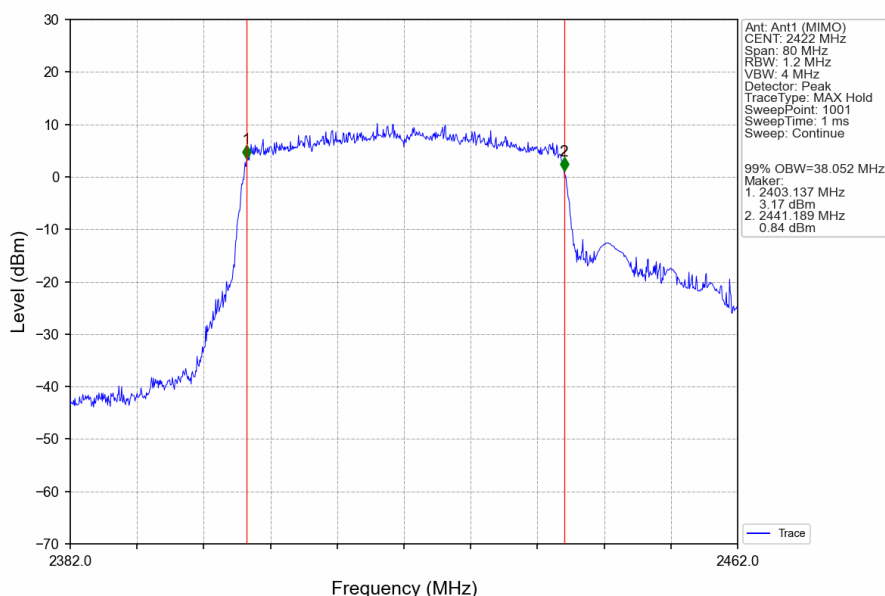
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11ax(HEW20) HCH 2462MHz RU242 Left Ant1 (MIMO) NTN



802.11ax(HEW40) LCH 2422MHz RU484 Left Ant1 (MIMO) NTN



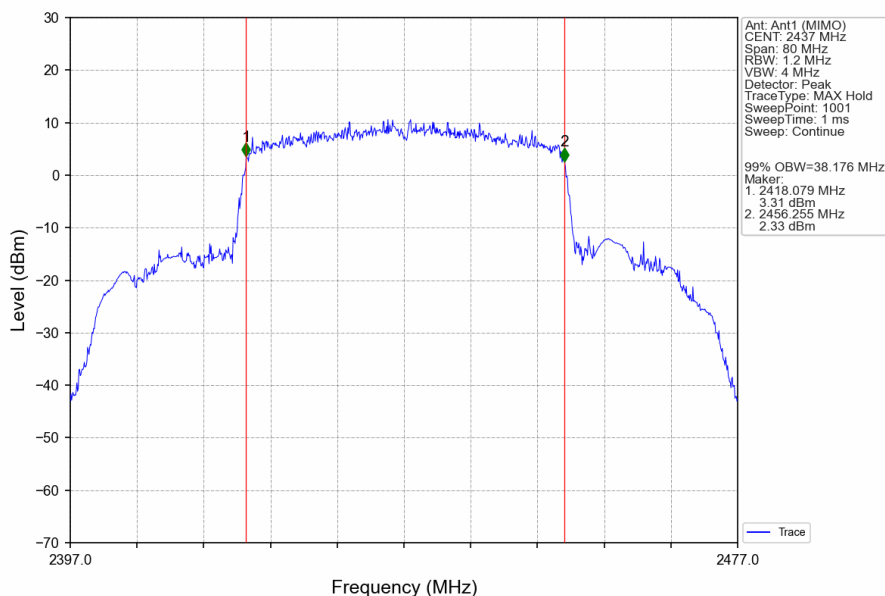
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

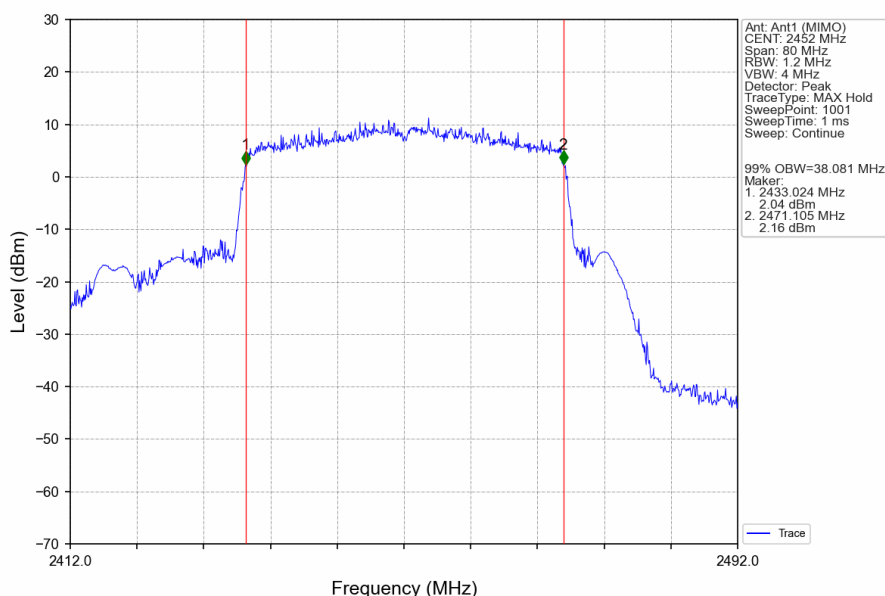
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11ax(HEW40) MCH 2437MHz RU484 Left Ant1 (MIMO) NTNV



802.11ax(HEW40) HCH 2452MHz RU484 Left Ant1 (MIMO) NTNV



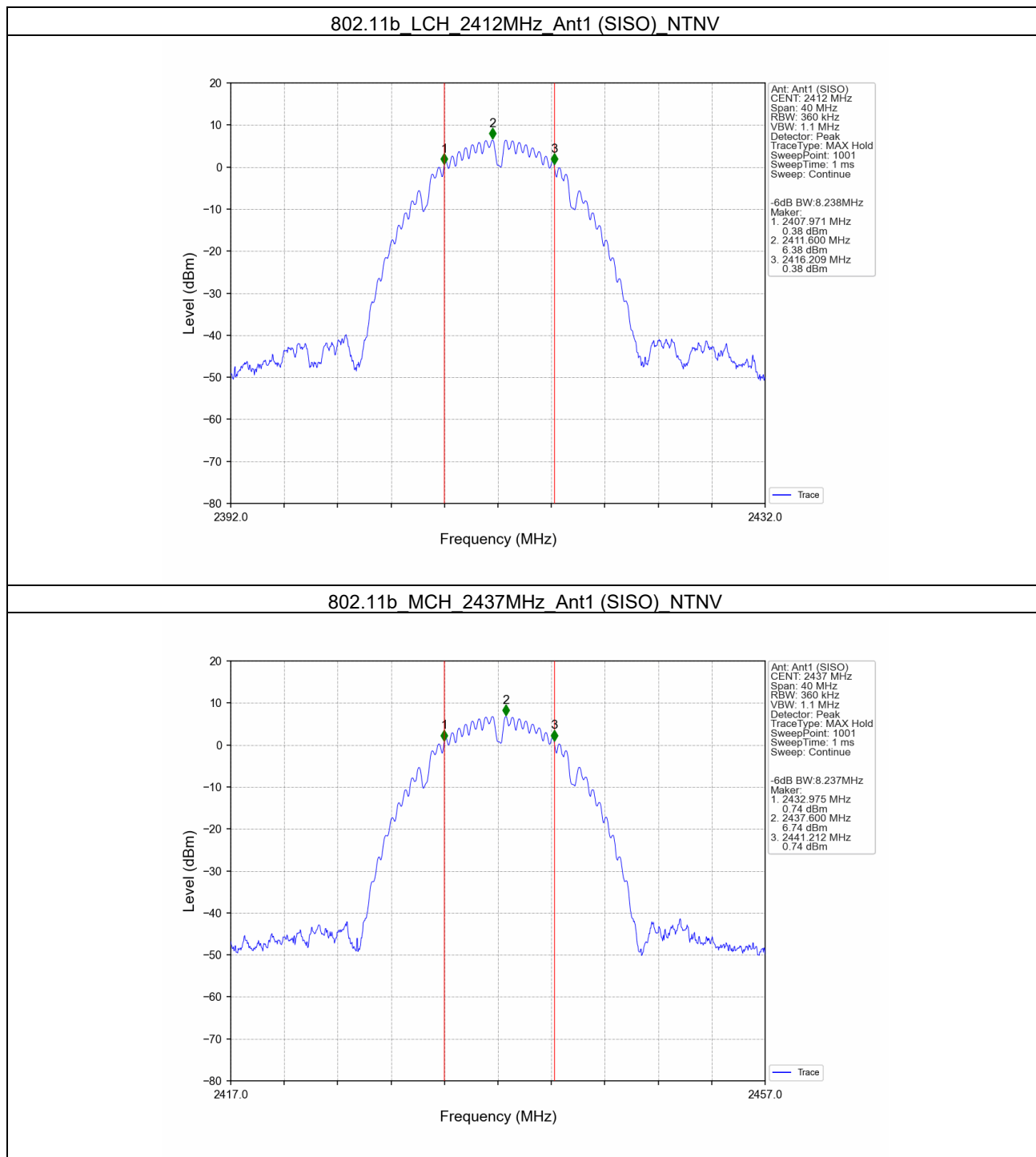
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

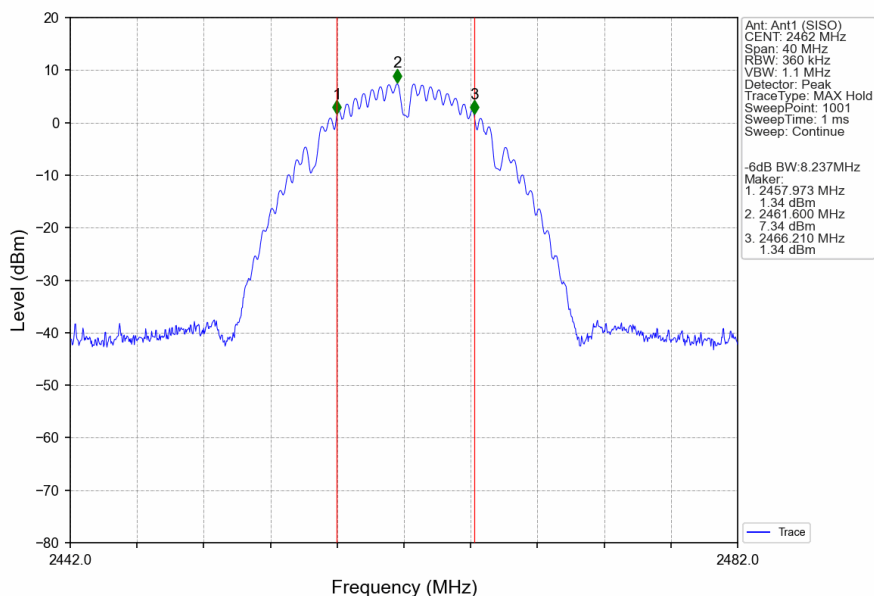
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

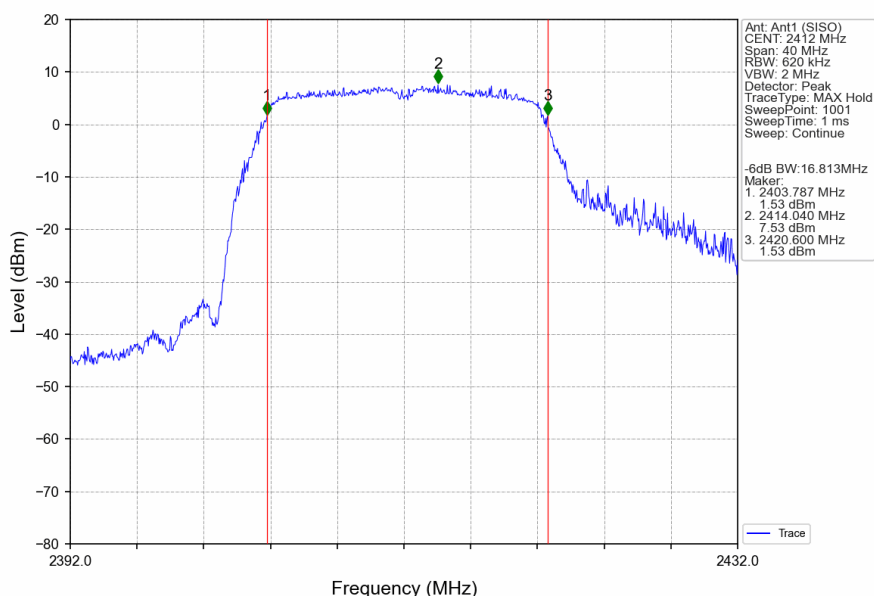
2.2.2 6dB BW



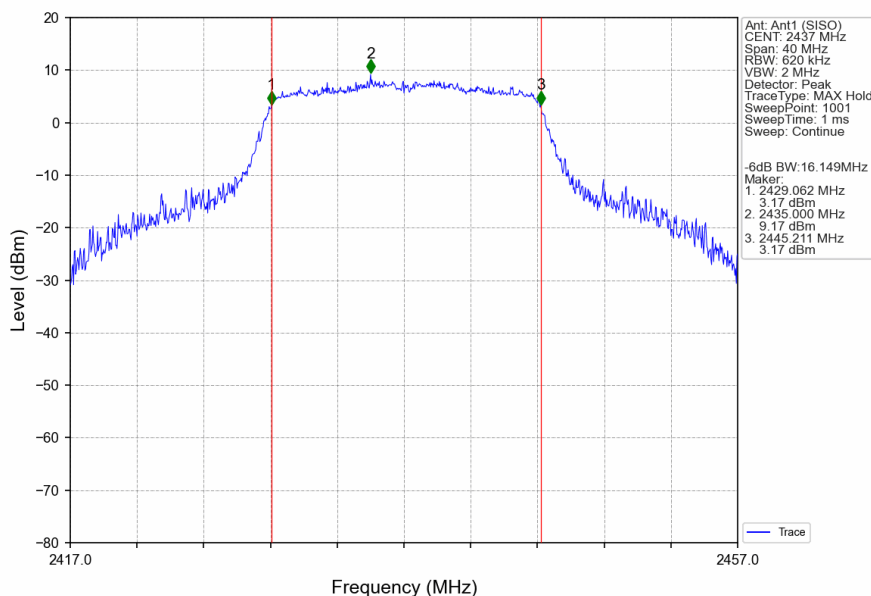
802.11b HCH 2462MHz Ant1 (SISO) NTN



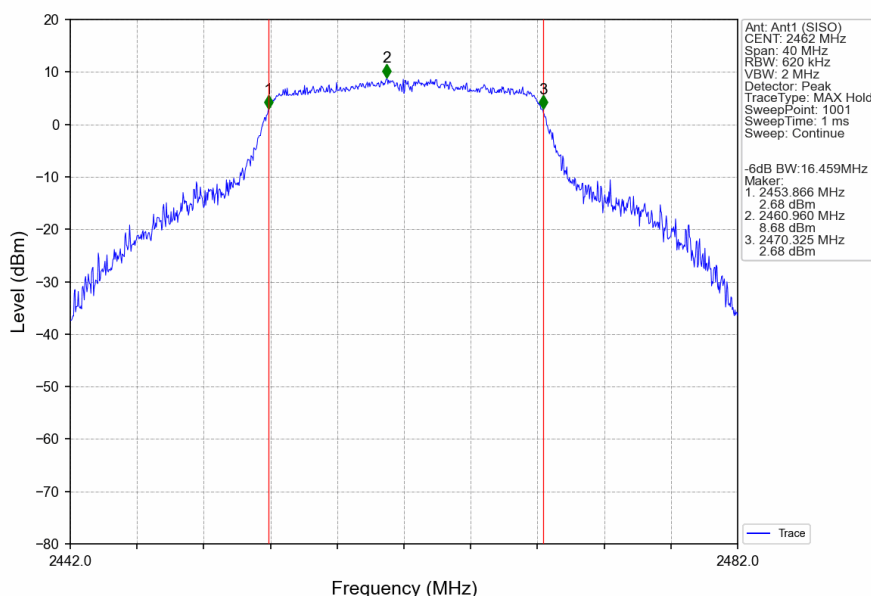
802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



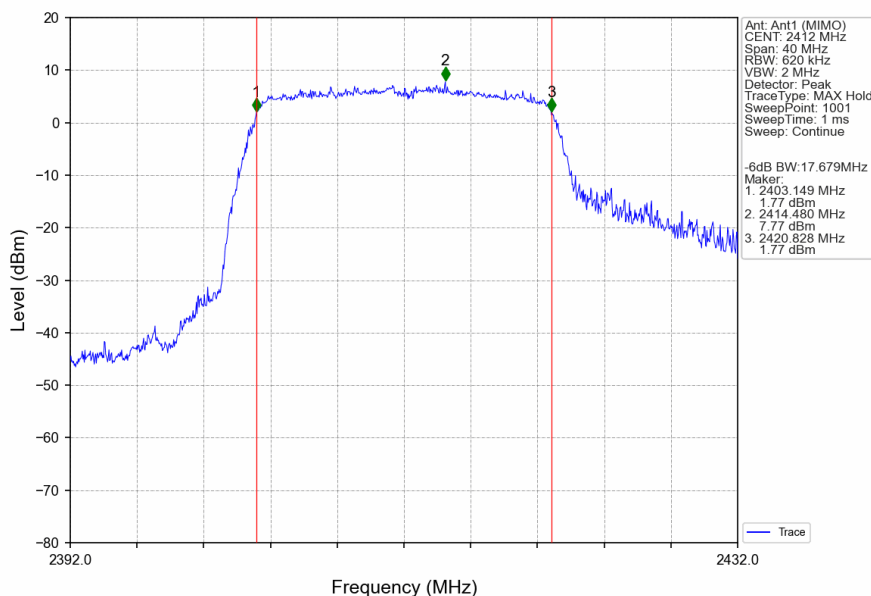
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

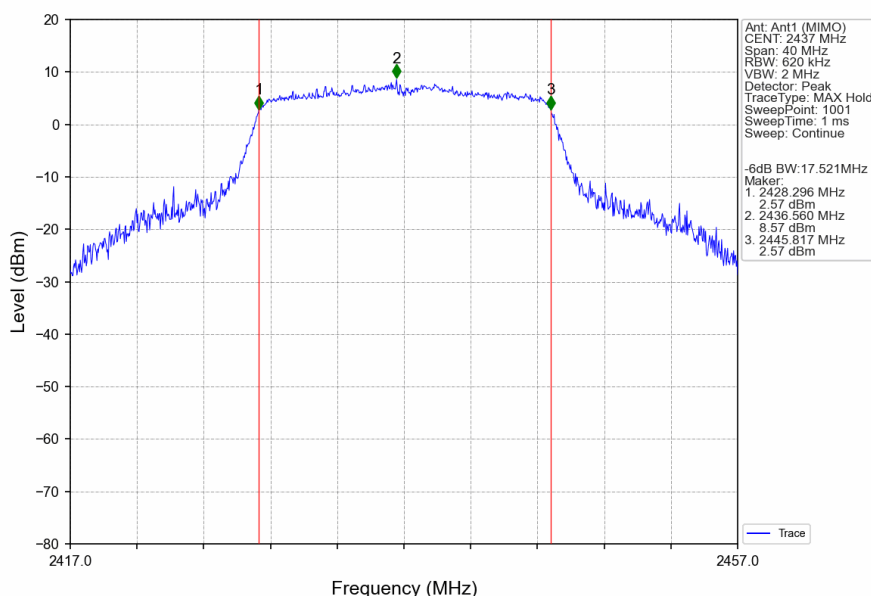
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



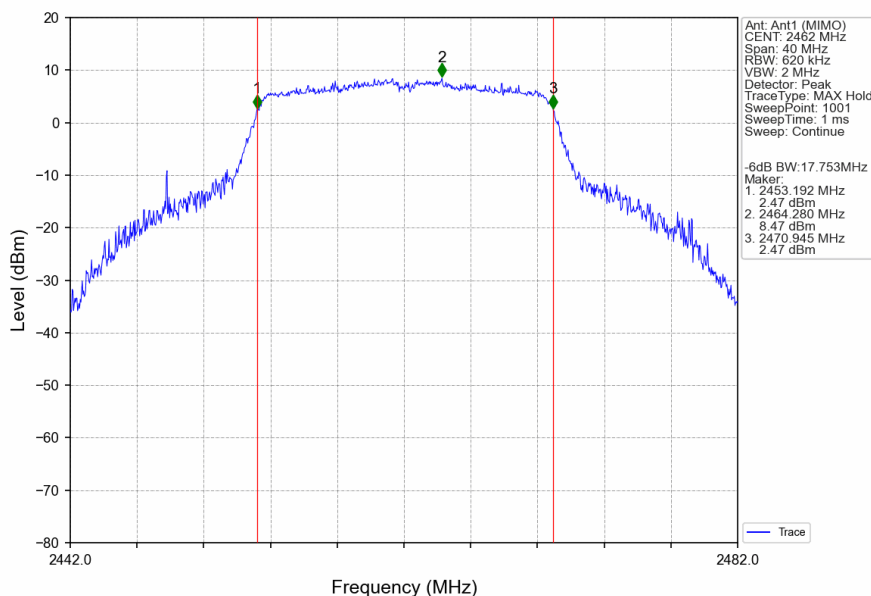
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

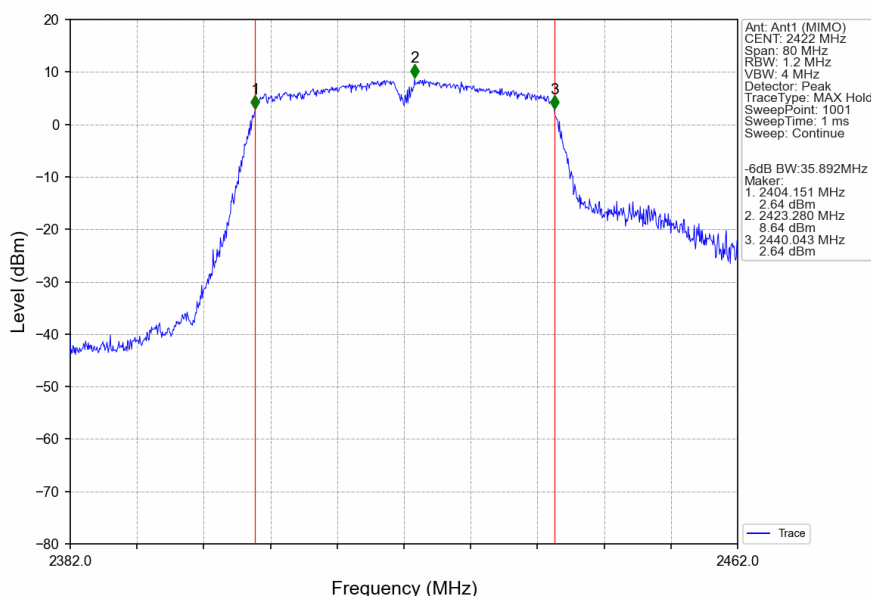
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

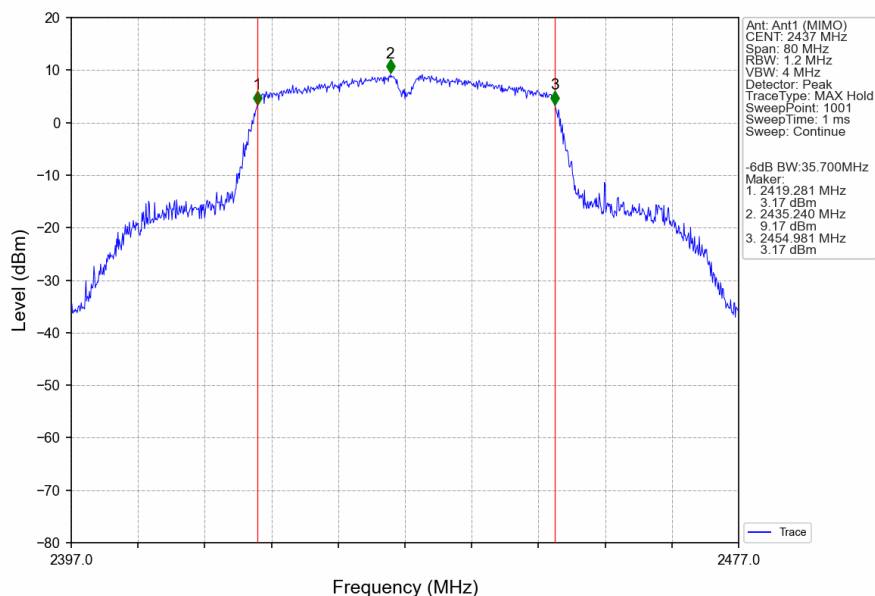
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



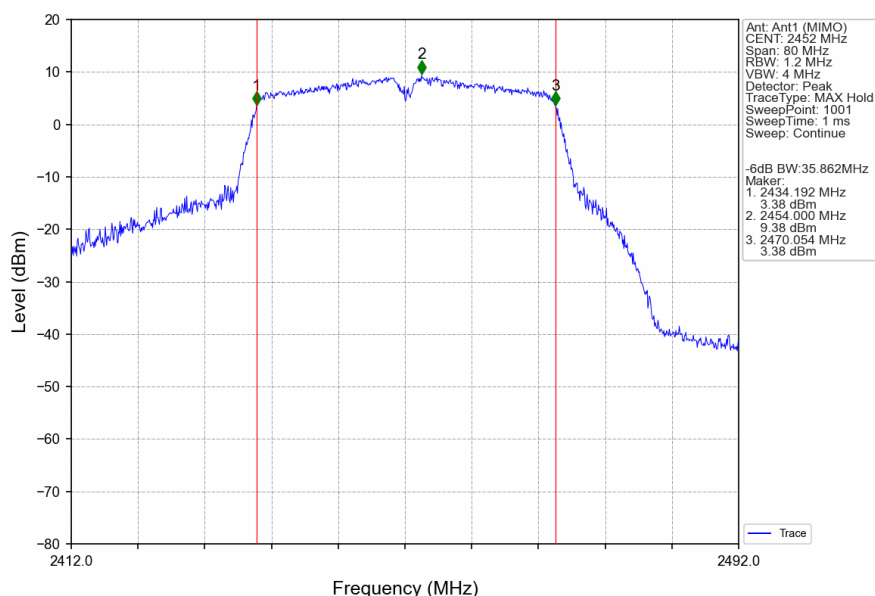
802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



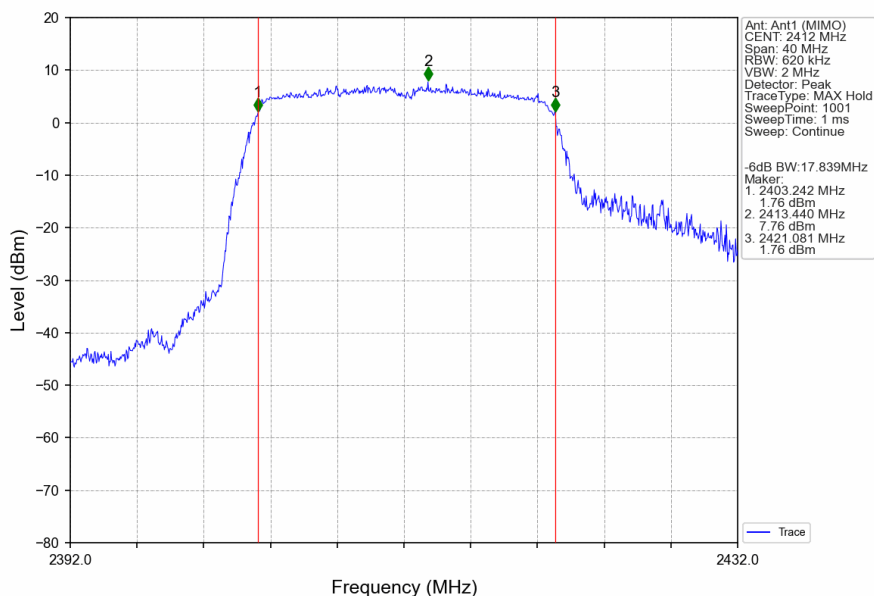
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

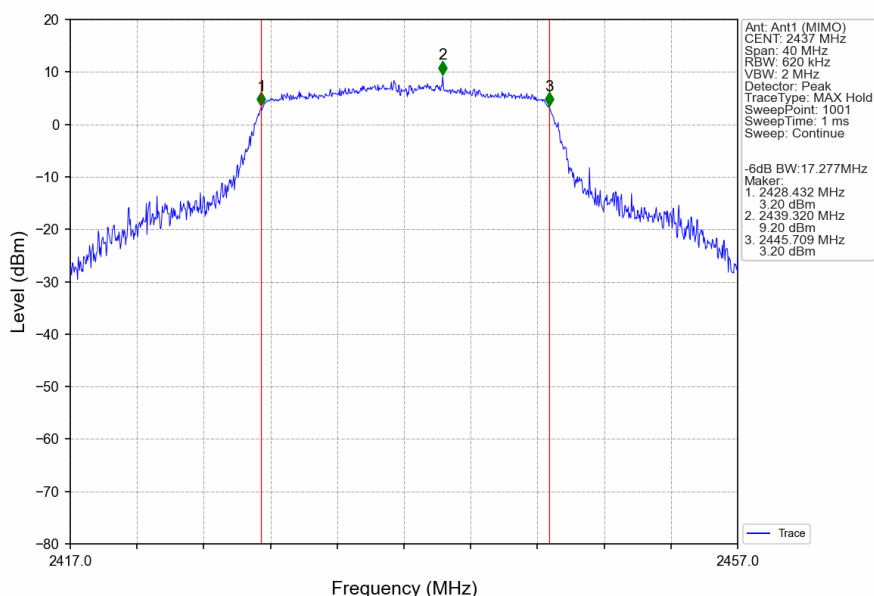
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

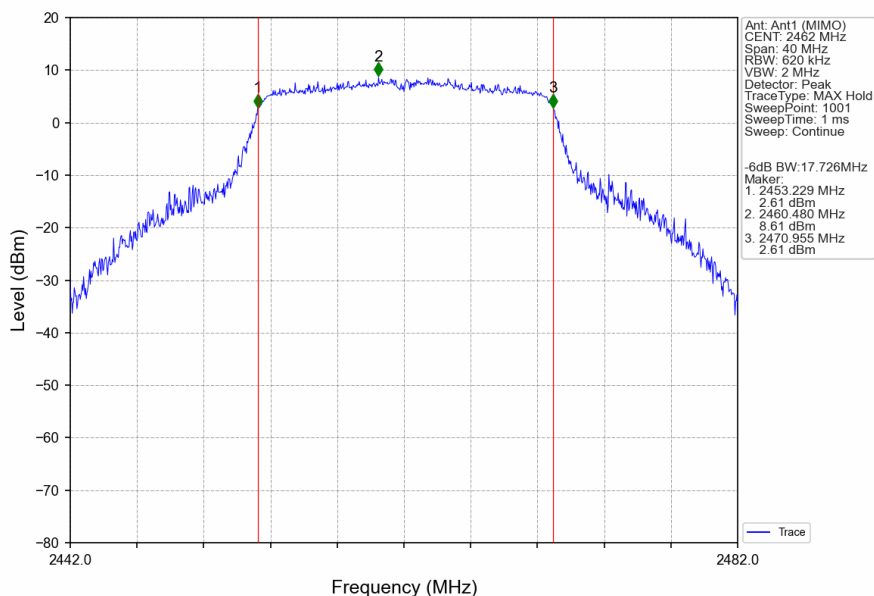
802.11ax(HEW20) LCH 2412MHz RU242 Left Ant1 (MIMO) NTN



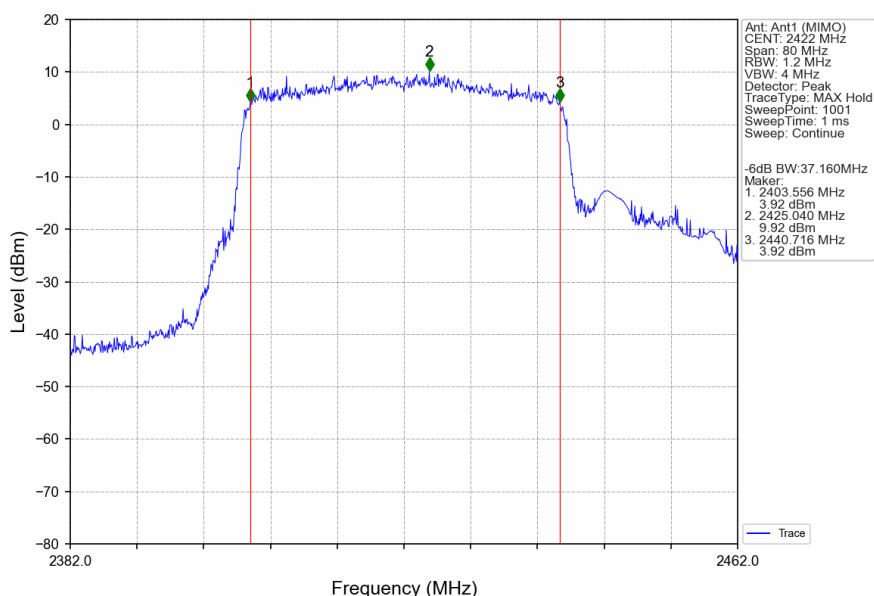
802.11ax(HEW20) MCH 2437MHz RU242 Left Ant1 (MIMO) NTN



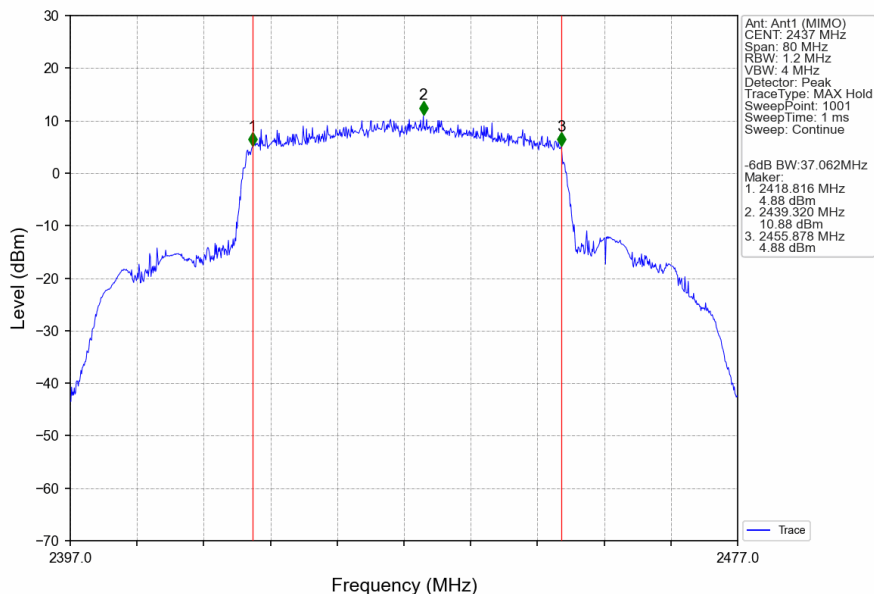
802.11ax(HEW20) HCH 2462MHz RU242 Left Ant1 (MIMO) NTN



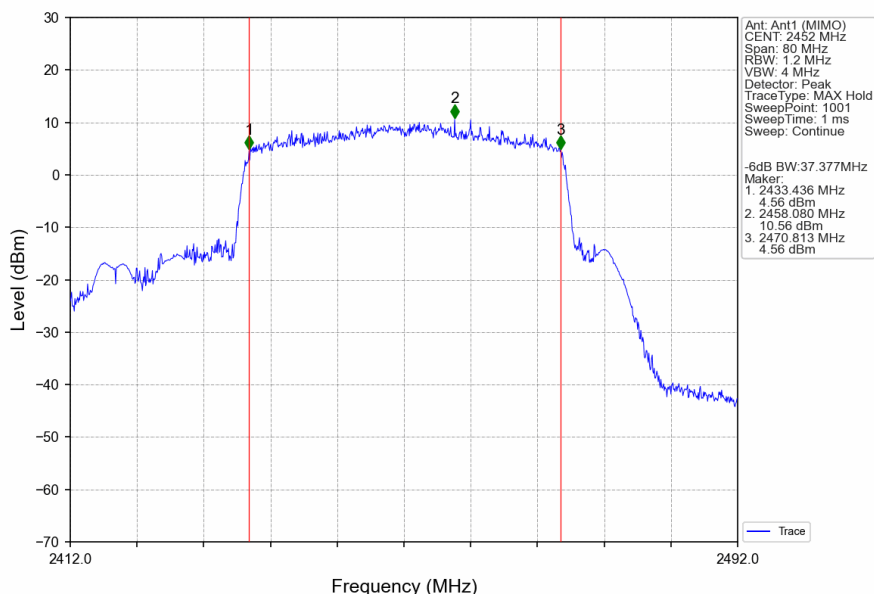
802.11ax(HEW40) LCH 2422MHz RU484 Left Ant1 (MIMO) NTN



802.11ax(HEW40) MCH 2437MHz RU484 Left Ant1 (MIMO) NTNV



802.11ax(HEW40) HCH 2452MHz RU484 Left Ant1 (MIMO) NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	13.86	14.12	/	<=30	Pass
		2437	/	/	14.29	13.87	/	<=30	Pass
		2462	/	/	14.89	13.68	/	<=30	Pass
802.11g	SISO	2412	/	/	12.87	13.08	/	<=30	Pass
		2437	/	/	13.36	12.92	/	<=30	Pass
		2462	/	/	13.94	12.71	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	12.80	13.03	15.93	<=30	Pass
		2437	/	/	13.27	12.87	16.08	<=30	Pass
		2462	/	/	13.87	12.76	16.36	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	12.72	12.92	15.83	<=30	Pass
		2437	/	/	13.23	12.80	16.03	<=30	Pass
		2452	/	/	13.30	12.60	15.97	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU26	Left	2.11	1.43	4.79	<=30	Pass
			RU52	Left	5.48	5.06	8.29	<=30	Pass
			RU106	Left	8.42	8.49	11.47	<=30	Pass
			RU242	Left	12.95	13.05	16.01	<=30	Pass
		2437	RU26	Mid	5.25	3.48	7.46	<=30	Pass
			RU52	Mid	7.43	6.46	9.98	<=30	Pass
			RU106	Left	9.06	8.38	11.74	<=30	Pass
			RU242	Left	13.40	12.90	16.17	<=30	Pass
		2462	RU26	Right	2.66	0.74	4.82	<=30	Pass
			RU52	Right	7.50	6.03	9.84	<=30	Pass
			RU106	Right	9.69	8.11	11.98	<=30	Pass
			RU242	Left	13.98	12.72	16.41	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU242	Left	9.58	9.48	12.54	<=30	Pass
			RU484	Left	12.77	12.88	15.84	<=30	Pass
		2437	RU242	Left	10.00	9.38	12.71	<=30	Pass
			RU484	Left	13.31	12.75	16.05	<=30	Pass
		2452	RU242	Right	10.00	9.01	12.54	<=30	Pass
			RU484	Left	13.30	12.61	15.98	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-2.60	-2.40	/	<=8	Pass
		2437	/	/	-2.40	-2.56	/	<=8	Pass
		2462	/	/	-1.85	-2.82	/	<=8	Pass
802.11g	SISO	2412	/	/	-6.76	-6.44	/	<=8	Pass
		2437	/	/	-5.84	-6.47	/	<=8	Pass
		2462	/	/	-5.38	-6.45	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-7.06	-6.89	-4.07	<=8	Pass
		2437	/	/	-6.36	-6.83	-3.63	<=8	Pass
		2462	/	/	-5.81	-6.49	-3.34	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-9.40	-9.22	-6.30	<=8	Pass
		2437	/	/	-9.00	-9.25	-6.11	<=8	Pass
		2452	/	/	-8.91	-9.18	-6.31	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU26	Left	-10.76	-11.57	-8.24	<=8	Pass
			RU52	Left	-9.14	-10.47	-6.90	<=8	Pass
			RU106	Left	-8.95	-8.71	-5.82	<=8	Pass
			RU242	Left	-7.02	-6.71	-4.01	<=8	Pass
		2437	RU26	Mid	-8.15	-9.16	-5.82	<=8	Pass
			RU52	Mid	-7.98	-9.13	-5.64	<=8	Pass
			RU106	Left	-7.76	-9.04	-5.34	<=8	Pass
			RU242	Left	-6.14	-6.49	-3.44	<=8	Pass
		2462	RU26	Right	-10.12	-12.34	-8.22	<=8	Pass
			RU52	Right	-7.49	-9.33	-5.35	<=8	Pass
			RU106	Right	-7.40	-9.12	-5.30	<=8	Pass
			RU242	Left	-5.35	-6.62	-2.98	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU242	Left	-10.40	-10.70	-7.64	<=8	Pass
			RU484	Left	-9.28	-9.22	-6.24	<=8	Pass
		2437	RU242	Left	-10.15	-10.61	-7.55	<=8	Pass
			RU484	Left	-8.37	-8.79	-5.89	<=8	Pass
		2452	RU242	Right	-10.10	-10.35	-7.43	<=8	Pass
			RU484	Left	-8.19	-9.13	-5.93	<=8	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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.

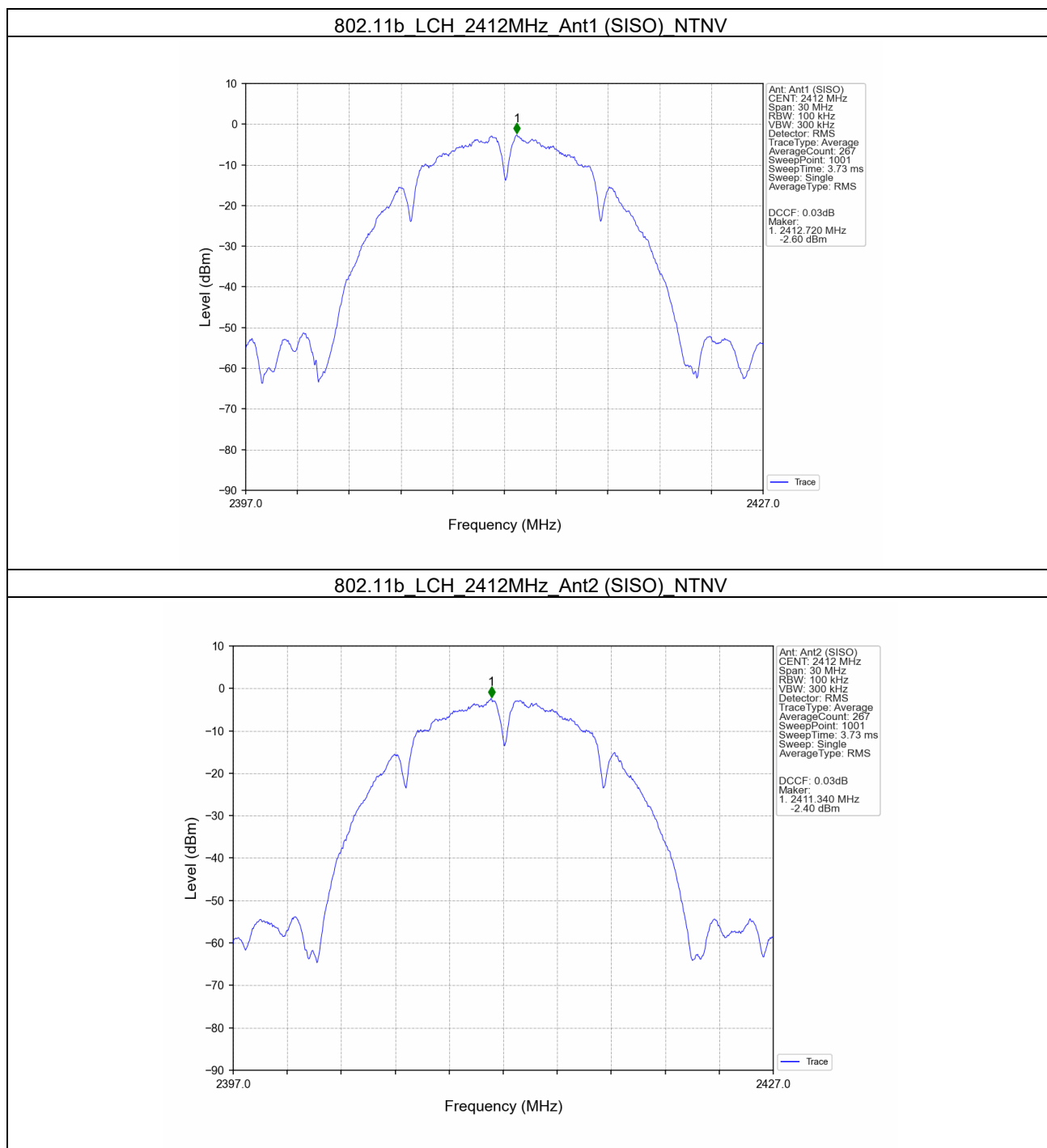
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.2 Test Graph

4.2.1 PSD



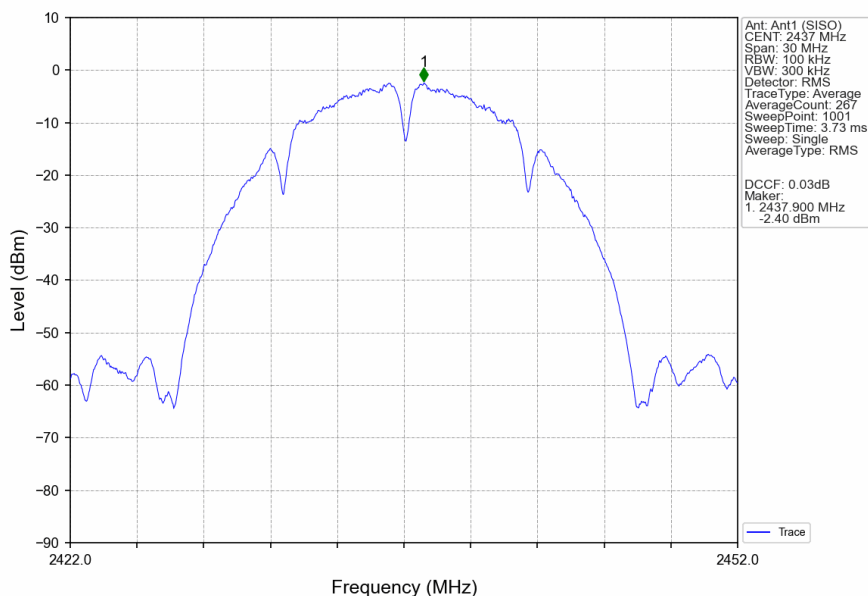
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

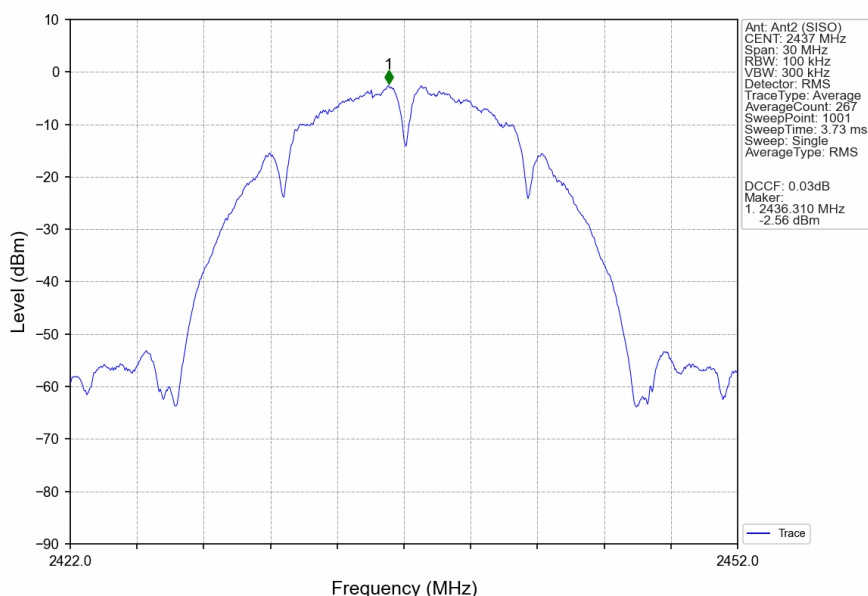
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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 <https://www.sgs.com/en/Terms-and-Conditions>. 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 Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com