

TEST REPORT

Application No.: SZCR2507003328WM
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: 2510EPC8BG
Trade Mark: POCO
FCC ID: 2AFZZPC8BG
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-07-28
Date of Test: 2025-08-19 to 2025-09-01
Date of Issue: 2025-09-04

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

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC 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.ssgroup.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/1

Report No.: SZCR250700332810

Page: 2 of 477

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-04		Original

Authorized for issue by:				
		Kevin Lan		
		Kevin Lan/Project Engineer		
		Eric Fu		
		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
Inspection & Testing Services

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

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
In-Band Emissions		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Contention-based Protocol		KDB 987594 D02	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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 Environment Parameter	7
4.3 Description of Support Units	7
4.4 Measurement Uncertainty	7
4.5 Test Location.....	8
4.6 Test Facility	8
4.7 Deviation from Standards.....	8
4.8 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	13
6.1 Antenna Requirement	13
6.1.1 Test Requirement:	13
6.1.2 Conclusion	13
7 Radio Spectrum Matter Test Results	15
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz).....	15
7.1.1 E.U.T. Operation	15
7.1.2 Test Mode Description	15
7.1.3 Test Setup Diagram.....	16
7.1.4 Measurement Procedure and Data.....	16
7.2 Radiated Emissions (Below 1GHz)	19
7.2.1 E.U.T. Operation	19
7.2.2 Test Mode Description	19
7.2.3 Test Setup Diagram.....	19
7.2.4 Measurement Procedure and Data.....	20
7.3 Radiated Emissions (Above 1GHz).....	23
7.3.1 E.U.T. Operation	23
7.3.2 Test Mode Description	23
7.3.3 Test Setup Diagram.....	23
7.3.4 Measurement Procedure and Data.....	24
7.4 Radiated Emissions which fall in the restricted bands	37
7.4.1 E.U.T. Operation	37
7.4.2 Test Mode Description	37
7.4.3 Test Setup Diagram.....	37
7.4.4 Measurement Procedure and Data.....	38
7.5 In-Band Emissions	79



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 5 of 477

7.5.1	E.U.T. Operation	79
7.5.2	Test Mode Description	79
7.5.3	Test Setup Diagram	79
7.5.4	Measurement Procedure and Data	79
7.6	Contention-based Protocol	80
7.6.1	E.U.T. Operation	80
7.6.2	Test Mode Description	80
7.6.3	Test Setup Diagram	80
7.6.4	Measurement Procedure and Data	80
7.7	Duty Cycle	81
7.7.1	E.U.T. Operation	81
7.7.2	Test Mode Description	81
7.7.3	Test Setup Diagram	81
7.7.4	Measurement Procedure and Data	81
7.8	99% Bandwidth	82
7.8.1	E.U.T. Operation	82
7.8.2	Test Mode Description	82
7.8.3	Test Setup Diagram	82
7.8.4	Measurement Procedure and Data	82
7.9	26dB Emission bandwidth	83
7.9.1	E.U.T. Operation	83
7.9.2	Test Mode Description	83
7.9.3	Test Setup Diagram	83
7.9.4	Measurement Procedure and Data	83
7.10	Maximum Conducted output power	84
7.10.1	E.U.T. Operation	84
7.10.2	Test Mode Description	84
7.10.3	Test Setup Diagram	85
7.10.4	Measurement Procedure and Data	85
7.11	Peak Power spectrum density	86
7.11.1	E.U.T. Operation	86
7.11.2	Test Mode Description	86
7.11.3	Test Setup Diagram	87
7.11.4	Measurement Procedure and Data	87
7.12	Frequency Stability	88
7.12.1	E.U.T. Operation	88
7.12.2	Test Mode Description	88
7.12.3	Test Setup Diagram	88
7.12.4	Measurement Procedure and Data	88
8	Test Setup Photo	89
9	EUT Constructional Details (EUT Photos)	89
10	Appendix	90



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

4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone	
Model No.:	2510EPC8BG	
Trade Mark:	POCO	
Hardware Version:	13510P16U	
Software Version:	Xiaomi HyperOS 2.0	
Power Supply:	DC 3.83V from internal rechargeable battery which can be charge by AC/DC adapter	
IEEE 802.11 WLAN Mode Supported:	☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth) ☒ 802.11ax (160 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz	
Type of Modulation:	OFDM/OFDMA	
FCC Classification:	Dual Client (6CD),(Standard client)	
Antenna Type:	PIFA Antenna	
Smart System:	☒ SISO	802.11ax
	☒ MIMO	802.11ax: 2Tx & 2Rx
	☒ Diversity	CDD:802.11ax: 2Tx & 2Rx
Antenna Gain:	ANT12:UNII-5:-0.4 dBi; UNII-7:-3.3dBi; ANT11:UNII-5:-4.23dBi; UNII-7:-1.37dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2.2dB	
Remark: 1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. 2. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test PSD, the full RU PSD > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/BE.		



4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	40.5-61.9 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	19.7~26.7	3.83
Note:		
NV:Normal Voltage	LV:Low Extreme Test Voltage	HV:High Extreme Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature	HT:High Extreme Test Temperature

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
In-Band Emissions	$\pm 2.84\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$
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.	

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 8 of 477

4.5 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.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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

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	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
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	2026-03-02

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
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	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
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



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 Testing & 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.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/1

Report No.: SZCR250700332810

Page: 10 of 477

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
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 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	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
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



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.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/1

Report No.: SZCR250700332810

Page: 11 of 477

In-Band Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
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	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

Contention-based Protocol					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2025-05-16	2028-05-15
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2025-03-03	2026-03-02
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2025-07-24	2026-07-23
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2025-03-04	2026-03-03
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2025-07-05	2026-07-04



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 (SZEMC) 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/1

Report No.: SZCR250700332810

Page: 12 of 477

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
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	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03

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	2026-03-02



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 Testing & 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.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

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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 PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is

ANT12:UNII-5:-0.4 dBi; UNII-7:-3.3dBi; *

ANT11:UNII-5:-4.23dBi; UNII-7:-1.37dBi; *

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.
- For power measurements on IEEE 802.11 devices:
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain0 (dBi)	ANT Gain1 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)
5925 MHz to 6425 MHz	-0.4	-4.23	-0.4	0.904
6525 MHz to 6875 MHz	-3.3	-1.37	-1.37	0.73

5925 MHz to 6425 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

6525 MHz to 6875 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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 & Subpart E 15.407 b(9)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

7.1.1 E.U.T. Operation

Operating Environment:

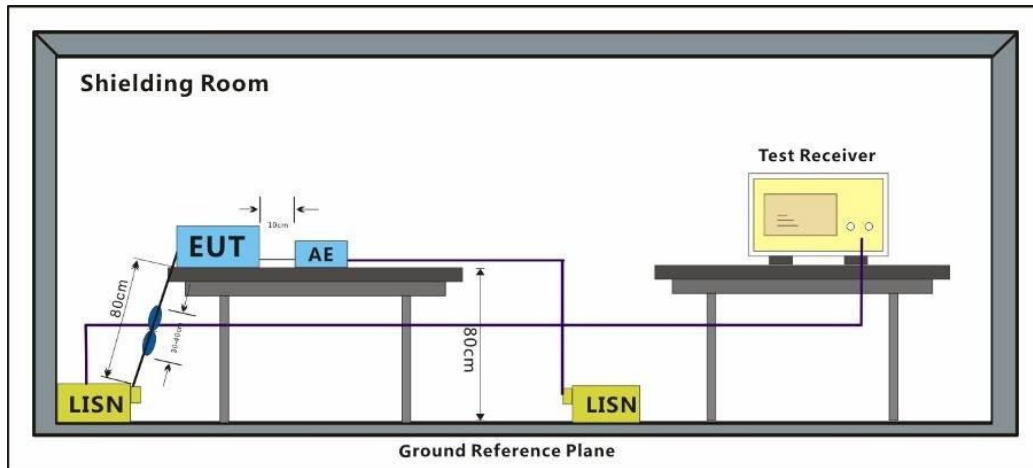
Temperature: 25.3 °C Humidity: 40.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



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

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

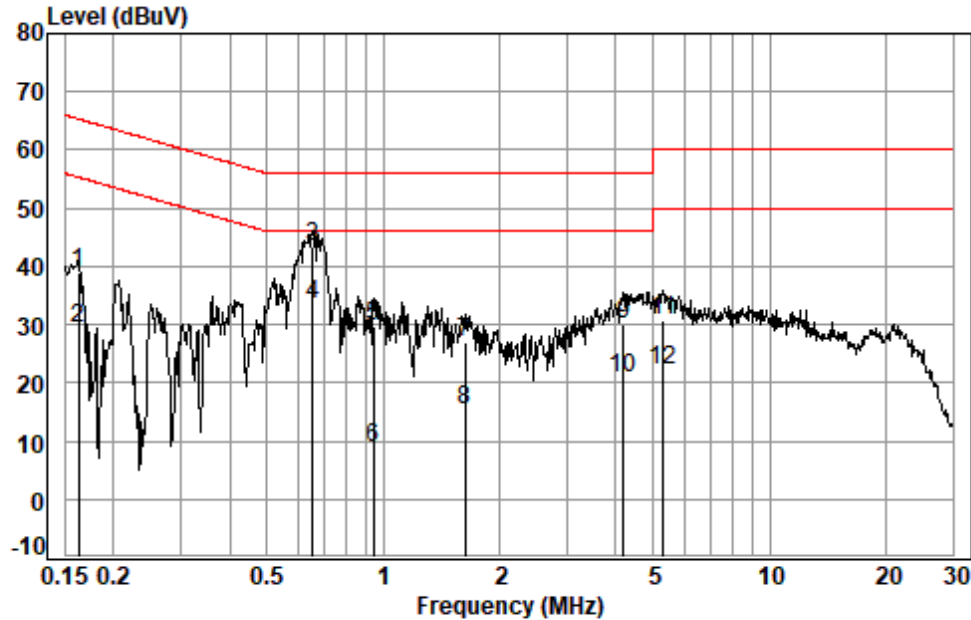
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 17 of 477

Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03328WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.05	10.17	28.57	38.79	65.34	-26.55	QP
2	0.1624	0.05	10.17	19.26	29.48	55.34	-25.86	Average
3 *	0.6578	0.09	9.63	33.57	43.29	56.00	-12.71	QP
4 *	0.6578	0.09	9.63	23.67	33.39	46.00	-12.61	Average
5	0.9431	0.10	9.59	20.05	29.74	56.00	-26.26	QP
6	0.9431	0.10	9.59	-0.79	8.90	46.00	-37.10	Average
7	1.6276	0.11	9.58	17.13	26.82	56.00	-29.18	QP
8	1.6276	0.11	9.58	5.52	15.21	46.00	-30.79	Average
9	4.1796	0.13	9.66	20.30	30.09	56.00	-25.91	QP
10	4.1796	0.13	9.66	10.97	20.76	46.00	-25.24	Average
11	5.3050	0.14	9.66	20.84	30.64	60.00	-29.36	QP
12	5.3050	0.14	9.66	12.21	22.01	50.00	-27.99	Average



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

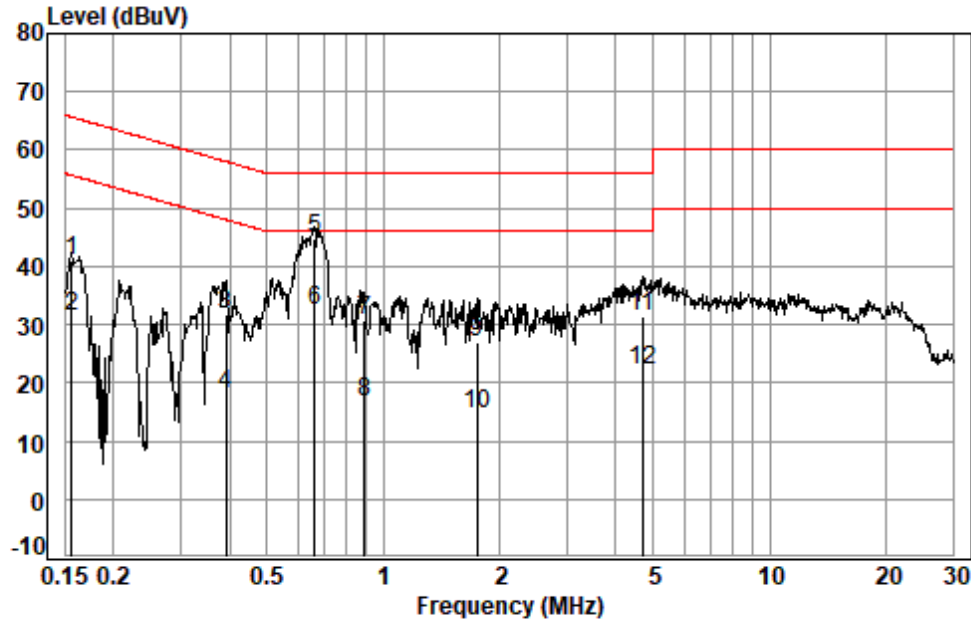
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 18 of 477

Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03328WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.05	10.14	30.77	40.96	65.69	-24.73	QP
2	0.1557	0.05	10.14	21.27	31.46	55.69	-24.23	Average
3	0.3914	0.08	9.74	21.84	31.66	58.03	-26.37	QP
4	0.3914	0.08	9.74	8.27	18.09	48.03	-29.94	Average
5 *	0.6648	0.09	9.66	34.89	44.64	56.00	-11.36	QP
6 *	0.6648	0.09	9.66	22.51	32.26	46.00	-13.74	Average
7	0.8944	0.10	9.57	20.95	30.62	56.00	-25.38	QP
8	0.8944	0.10	9.57	7.12	16.79	46.00	-29.21	Average
9	1.7529	0.11	9.55	17.17	26.83	56.00	-29.17	QP
10	1.7529	0.11	9.55	4.90	14.56	46.00	-31.44	Average
11	4.6964	0.13	9.56	21.84	31.53	56.00	-24.47	QP
12	4.6964	0.13	9.56	12.59	22.28	46.00	-23.72	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

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

7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

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

Measurement Distance: 3m

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

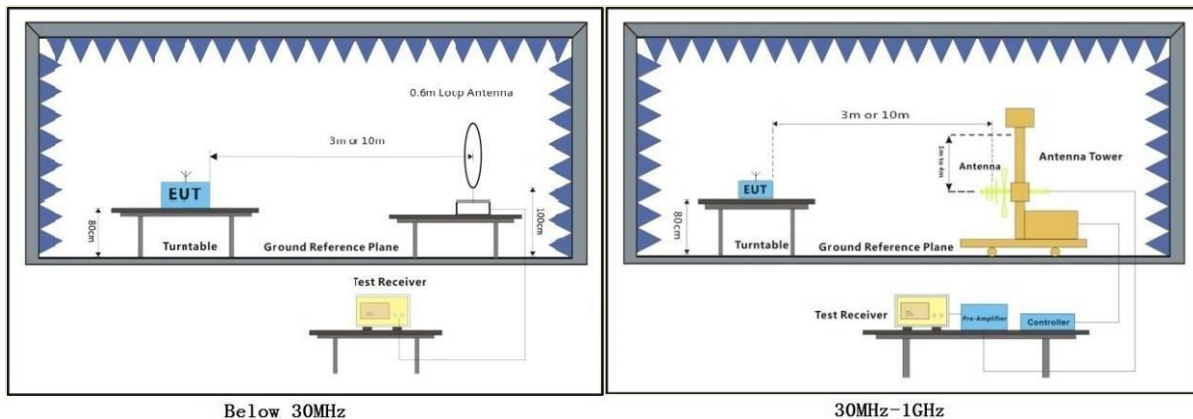
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

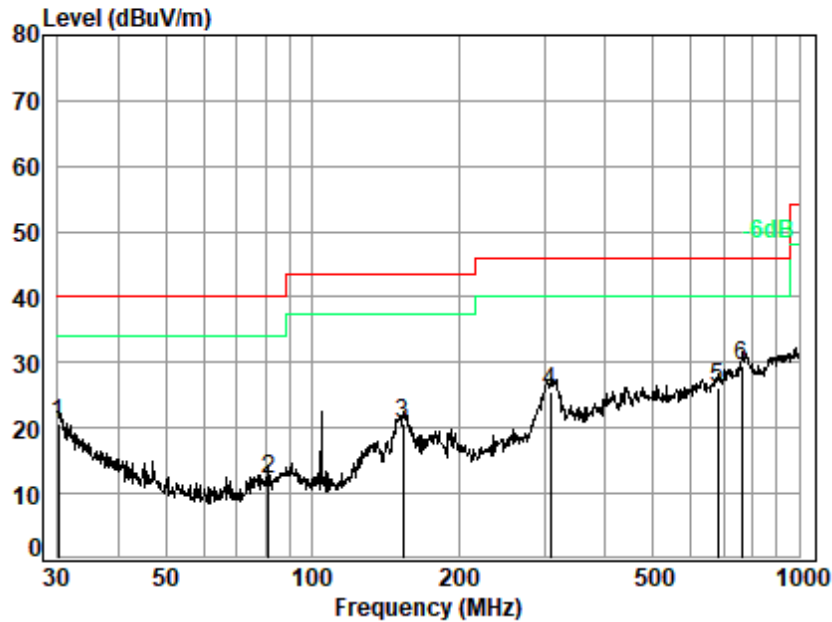
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 08; Polarity: Horizontal

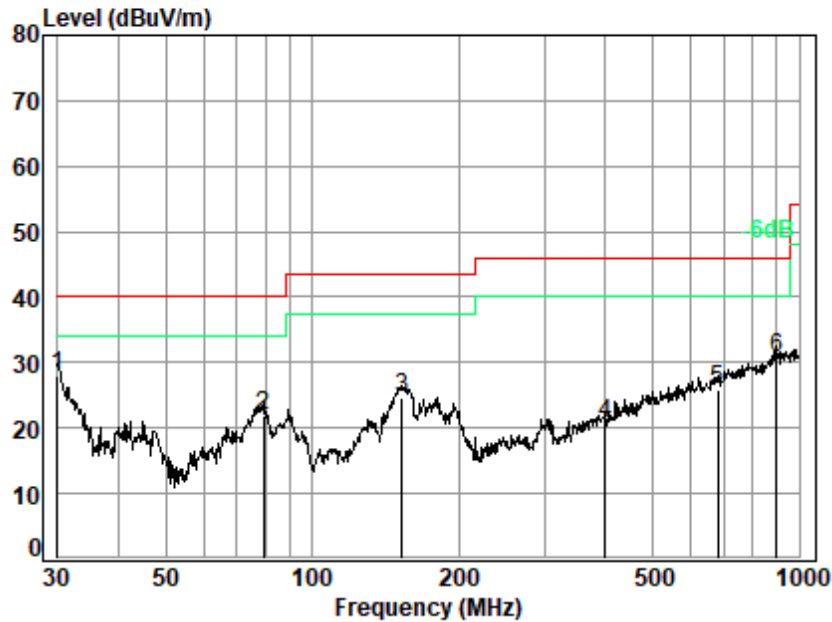


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03328WM
Test Mode: 08

	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	30.105	21.15	0.74	27.65	26.39	20.63	40.00	-19.37 QP
2	81.497	10.57	1.11	27.61	28.22	12.29	40.00	-27.71 QP
3	153.739	13.43	1.52	27.72	33.38	20.61	43.50	-22.89 QP
4	308.913	18.41	2.15	27.53	32.62	25.65	46.00	-20.35 QP
5	679.960	25.86	3.35	27.88	24.90	26.23	46.00	-19.77 QP
6 q	763.376	26.52	3.59	27.68	27.11	29.54	46.00	-16.46 QP



Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03328WM
Test Mode: 08

		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	30.000	21.20	0.74	27.65	33.62	27.91	40.00 -12.09 QP
2		79.521	10.43	1.09	27.61	38.04	21.95	40.00 -18.05 QP
3		153.200	13.39	1.52	27.72	37.35	24.54	43.50 -18.96 QP
4		399.030	20.63	2.49	27.75	25.20	20.57	46.00 -25.43 QP
5		679.960	25.86	3.35	27.88	24.64	25.97	46.00 -20.03 QP
6		896.997	27.93	3.97	26.98	25.71	30.63	46.00 -15.37 QP



7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

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

Measurement Distance: 3m

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

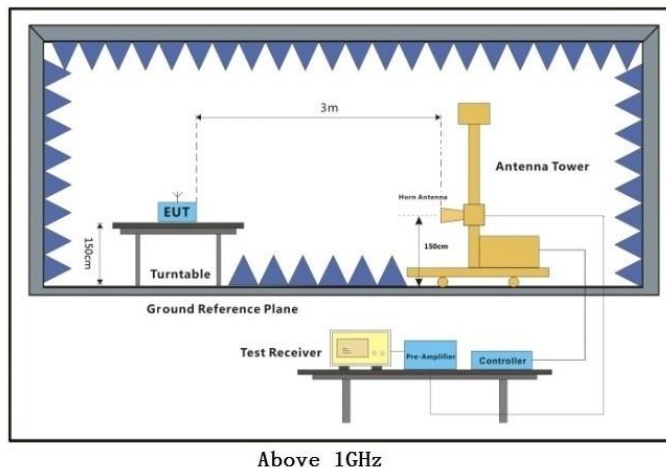
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

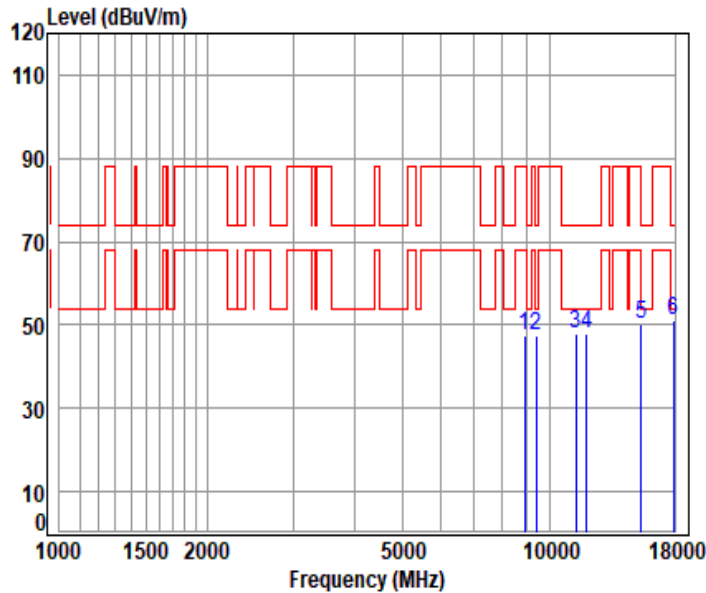
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- 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 peak or average 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. 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.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. 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.
6. 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.
7. 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.



11ax_20M_TX_CH_001_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

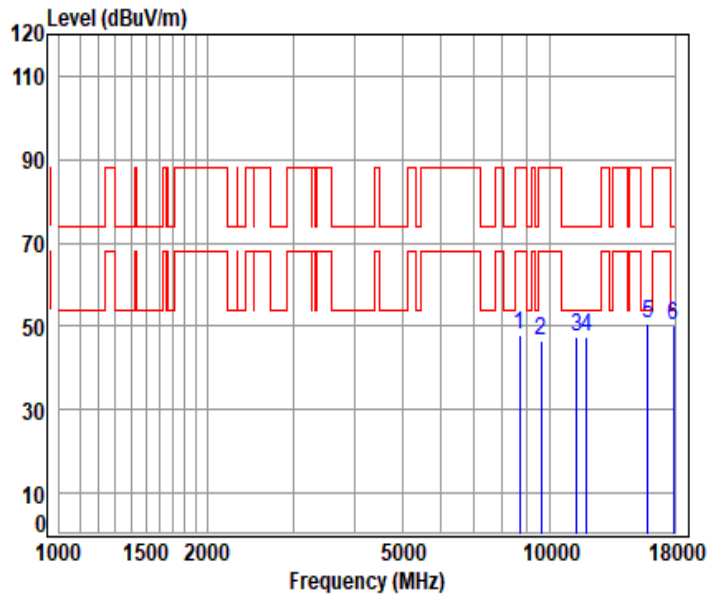
Mode : 5955 TX RSE

: Wi-Fi 6E 11ax20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8889.426	12.58	38.58	56.17	52.61	47.60	88.20 -40.60 peak
2	9385.771	12.37	38.80	56.00	52.22	47.39	74.00 -26.61 peak
3	11319.420	14.55	39.70	55.39	49.26	48.12	74.00 -25.88 peak
4	11910.000	14.62	39.71	55.22	48.73	47.84	74.00 -26.16 peak
5	15379.740	17.77	38.62	54.06	48.07	50.40	74.00 -23.60 peak
6	pp17865.000	19.21	42.89	54.19	43.09	51.00	74.00 -23.00 peak



11ax_20M_TX_CH_001_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

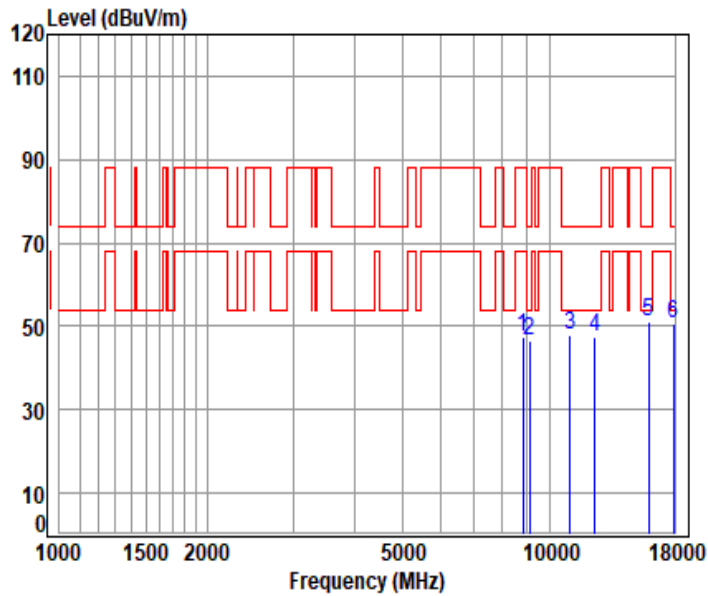
Mode : 5955 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8675.774	12.42	38.50	56.25	53.09	47.76	88.20	-40.44	peak
2	9624.709	12.66	38.75	55.92	51.27	46.76	88.20	-41.44	peak
3	11346.990	14.46	39.70	55.38	48.85	47.63	74.00	-26.37	peak
4	11910.000	14.62	39.71	55.22	48.18	47.29	74.00	-26.71	peak
5	pp15873.920	17.76	38.65	54.01	48.26	50.66	74.00	-23.34	peak
6	17865.000	19.21	42.89	54.19	42.40	50.31	74.00	-23.69	peak



11ax_20M_TX_CH_045_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

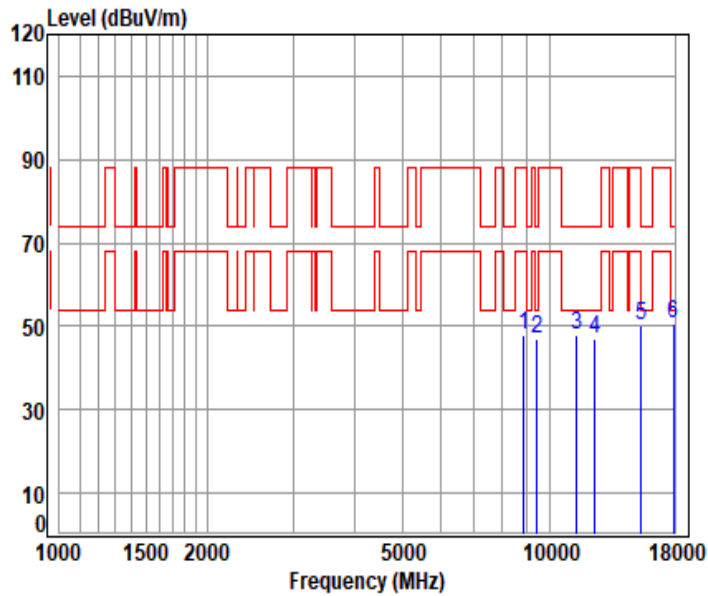
Mode : 6175 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8831.943	12.50	38.50	56.19	52.53	47.34	88.20	-40.86	peak
2	9100.956	12.27	38.60	56.10	51.81	46.58	74.00	-27.42	peak
3	11029.460	14.12	39.43	55.48	49.98	48.05	74.00	-25.95	peak
4	12350.000	14.81	39.85	55.07	47.79	47.38	74.00	-26.62	peak
5	pp15899.690	17.92	38.70	54.01	48.65	51.26	74.00	-22.74	peak
6	17869.110	19.22	42.91	54.19	42.79	50.73	74.00	-23.27	peak



11ax_20M_TX_CH_045_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

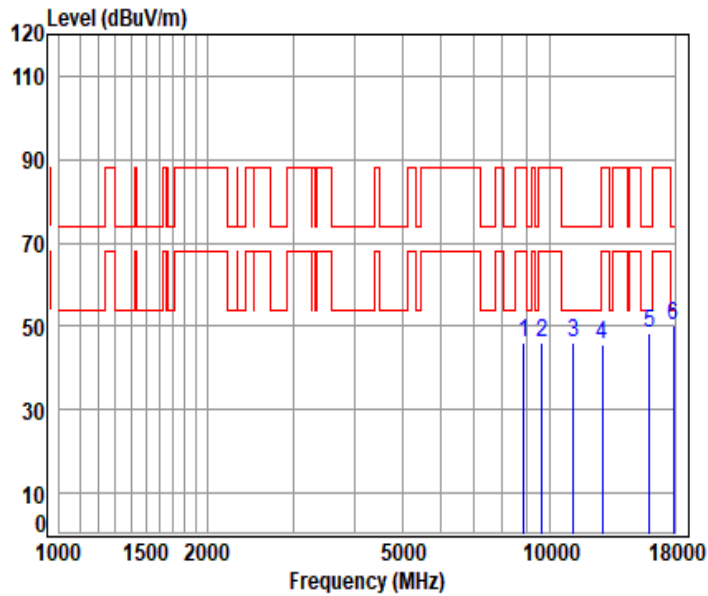
Mode : 6175 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8853.455	12.53	38.51	56.18	52.93	47.79	88.20	-40.41	peak
2	9423.904	12.42	38.80	55.99	51.59	46.82	74.00	-27.18	peak
3	11374.630	14.38	39.70	55.38	49.19	47.89	74.00	-26.11	peak
4	12350.000	14.81	39.85	55.07	47.47	47.06	74.00	-26.94	peak
5	15392.220	17.87	38.61	54.06	47.84	50.26	74.00	-23.74	peak
6	pp17869.110	19.22	42.91	54.19	42.78	50.72	74.00	-23.28	peak



11ax_20M_TX_CH_093_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

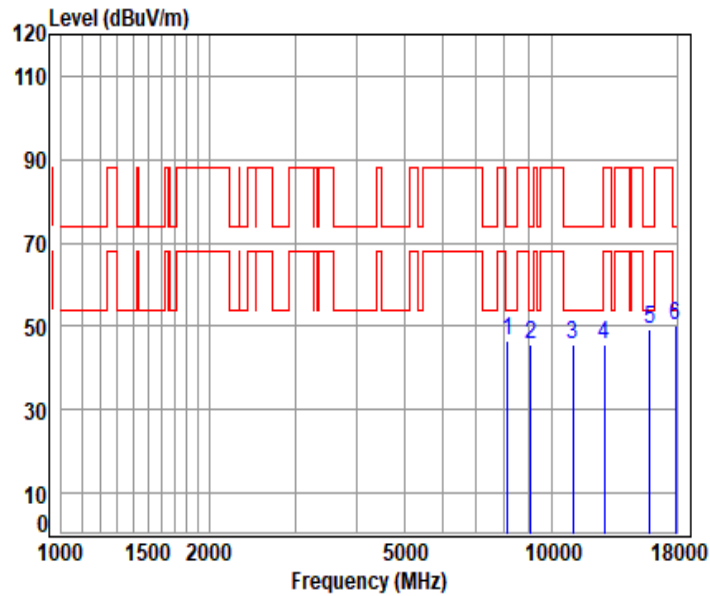
Mode : 6415 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8860.638	12.54	38.52	56.18	51.15	46.03	88.20	-42.17	peak
2	9663.813	12.80	38.70	55.91	50.57	46.16	88.20	-42.04	peak
3	11182.560	14.30	39.58	55.43	47.79	46.24	74.00	-27.76	peak
4	12830.000	15.28	40.33	54.90	44.92	45.63	88.20	-42.57	peak
5	15951.340	17.59	38.65	54.00	46.02	48.26	74.00	-25.74	peak
6	pp17869.110	19.22	42.91	54.19	42.36	50.30	74.00	-23.70	peak



11ax_20M_TX_CH_093_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

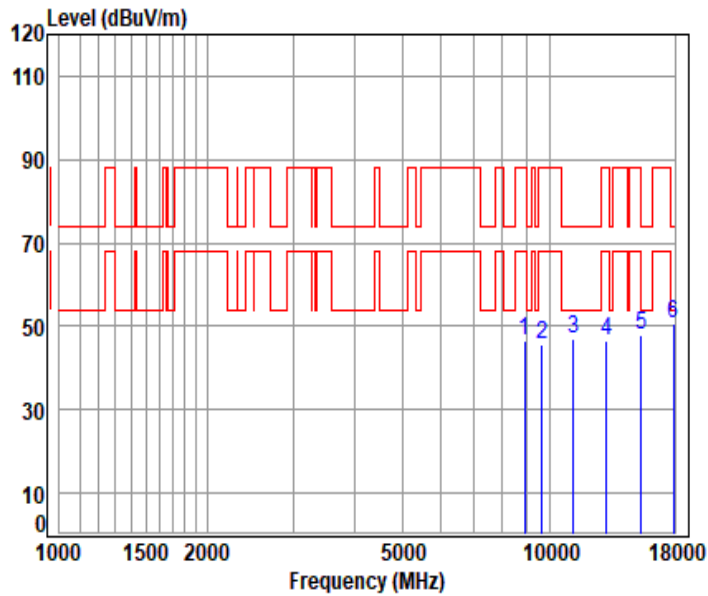
Mode : 6415 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8137.403	11.85	37.87	56.45	53.33	46.60	74.00	-27.40	peak
2	9064.129	12.31	38.60	56.11	50.94	45.74	74.00	-28.26	peak
3	11065.290	14.18	39.47	55.47	47.64	45.82	74.00	-28.18	peak
4	12830.000	15.28	40.33	54.90	45.06	45.77	88.20	-42.43	peak
5	15886.800	17.84	38.67	54.01	46.91	49.41	74.00	-24.59	peak
6	pp17869.110	19.22	42.91	54.19	42.29	50.23	74.00	-23.77	peak



11ax_20M_TX_CH_117_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

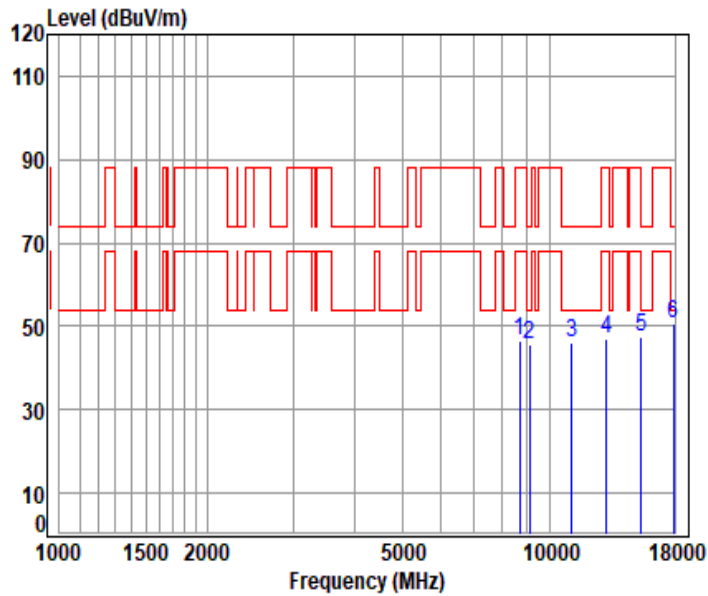
Mode : 6535 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8896.638	12.59	38.59	56.17	51.59	46.60	88.20	-41.60	peak
2	9640.331	12.72	38.72	55.91	50.08	45.61	88.20	-42.59	peak
3	11182.560	14.30	39.58	55.43	48.37	46.82	74.00	-27.18	peak
4	13070.000	15.42	40.30	54.81	45.53	46.44	88.20	-41.76	peak
5	15379.740	17.77	38.62	54.06	45.77	48.10	74.00	-25.90	peak
6	pp17869.110	19.22	42.91	54.19	42.78	50.72	74.00	-23.28	peak



11ax_20M_TX_CH_117_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

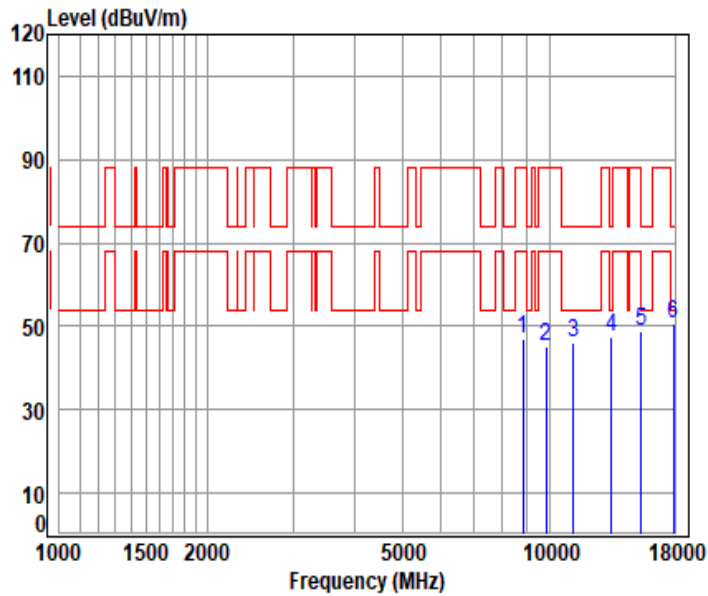
Mode : 6535 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8696.906	12.45	38.59	56.24	51.61	46.41	88.20	-41.79	peak
2	9093.578	12.28	38.60	56.10	50.88	45.66	74.00	-28.34	peak
3	11083.260	14.21	39.48	55.46	47.64	45.87	74.00	-28.13	peak
4	13070.000	15.42	40.30	54.81	46.28	47.19	88.20	-41.01	peak
5	15367.280	17.66	38.63	54.06	45.31	47.54	74.00	-26.46	peak
6	pp17869.110	19.22	42.91	54.19	42.92	50.86	74.00	-23.14	peak



11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

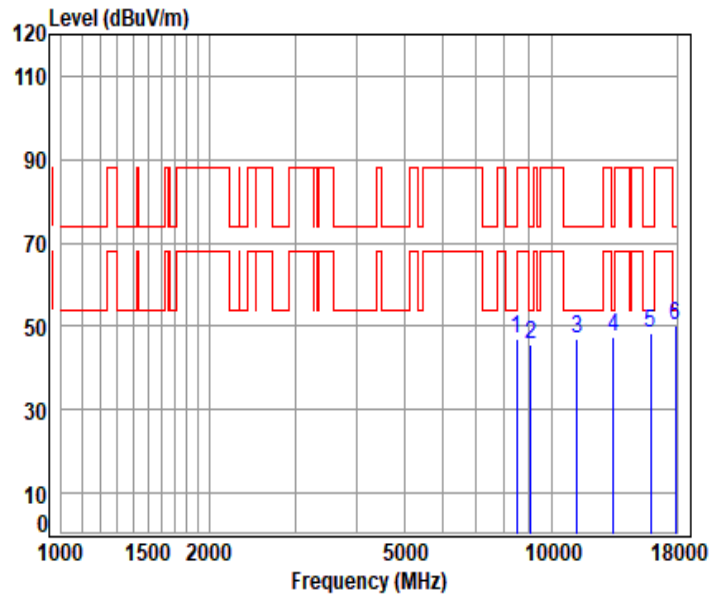
Mode : 6695 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8839.108	12.51	38.50	56.19	52.15	46.97	88.20	-41.23	peak
2	9853.735	12.87	37.88	55.85	50.29	45.19	88.20	-43.01	peak
3	11173.500	14.29	39.57	55.43	47.69	46.12	74.00	-27.88	peak
4	13390.000	15.69	40.30	54.70	46.28	47.57	74.00	-26.43	peak
5	15379.740	17.77	38.62	54.06	46.28	48.61	74.00	-25.39	peak
6	pp17869.110	19.22	42.91	54.19	42.75	50.69	74.00	-23.31	peak



11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

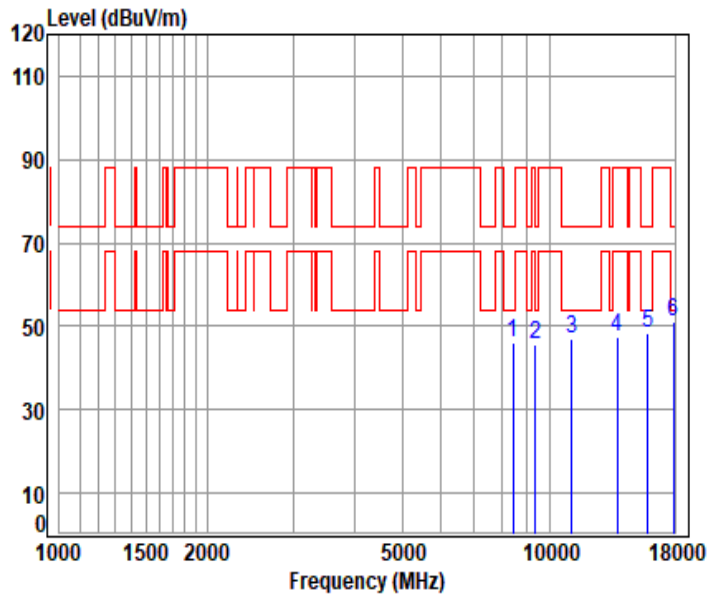
Mode : 6695 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8494.768	12.70	38.31	56.31	52.41	47.11	74.00	-26.89	peak
2	9049.440	12.32	38.60	56.11	50.97	45.78	74.00	-28.22	peak
3	11282.760	14.56	39.68	55.40	48.01	46.85	74.00	-27.15	peak
4	13390.000	15.69	40.30	54.70	46.02	47.31	74.00	-26.69	peak
5	15912.590	17.84	38.69	54.01	45.90	48.42	74.00	-25.58	peak
6	pp17869.110	19.22	42.91	54.19	42.41	50.35	74.00	-23.65	peak



11ax_20M_TX_CH_181_Horizontal



Condition: 3m HORIZONTAL

Job No : 03328WM

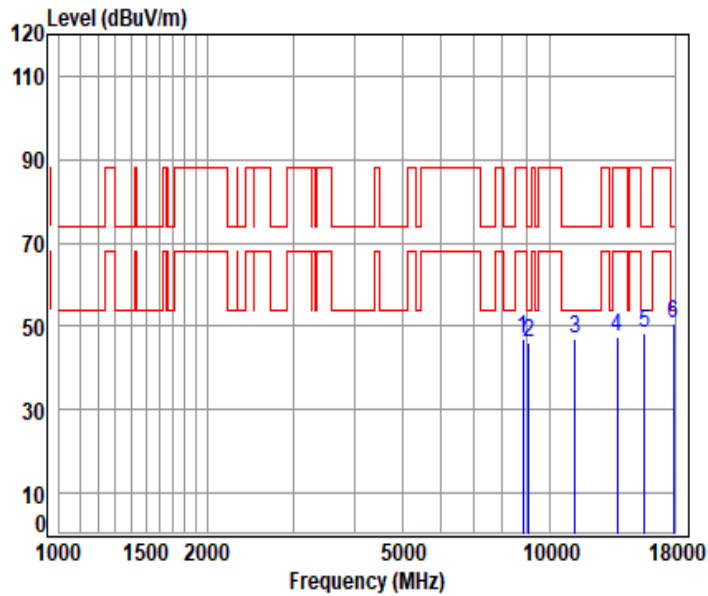
Mode : 6855 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8412.504	11.99	38.55	56.34	51.75	45.95	74.00	-28.05	peak
2	9347.792	12.36	38.80	56.01	50.31	45.46	74.00	-28.54	peak
3	11110.250	14.25	39.51	55.45	48.56	46.87	74.00	-27.13	peak
4	13710.000	16.11	39.99	54.60	46.07	47.57	88.20	-40.63	peak
5	15886.800	17.84	38.67	54.01	45.96	48.46	74.00	-25.54	peak
6	pp17869.110	19.22	42.91	54.19	43.01	50.95	74.00	-23.05	peak



11ax_20M_TX_CH_181_Vertical



Condition: 3m VERTICAL

Job No : 03328WM

Mode : 6855 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8831.943	12.50	38.50	56.19	52.36	47.17	88.20	-41.03	peak
2	9071.482	12.30	38.60	56.11	51.14	45.93	74.00	-28.07	peak
3	11255.350	14.48	39.66	55.41	48.10	46.83	74.00	-27.17	peak
4	13710.000	16.11	39.99	54.60	45.74	47.24	88.20	-40.96	peak
5	15631.220	17.12	38.53	54.04	46.55	48.16	74.00	-25.84	peak
6	pp17869.110	19.22	42.91	54.19	42.92	50.86	74.00	-23.14	peak



7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

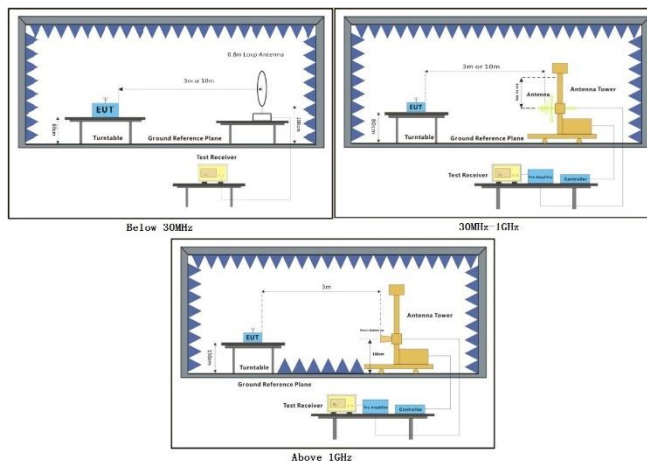
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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

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

7.4.4 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.

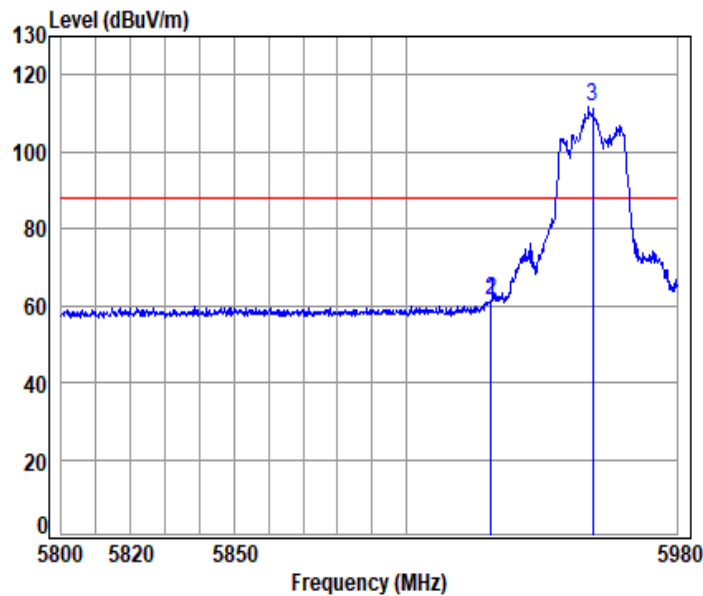
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. 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 3. 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.



11ax_20M_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

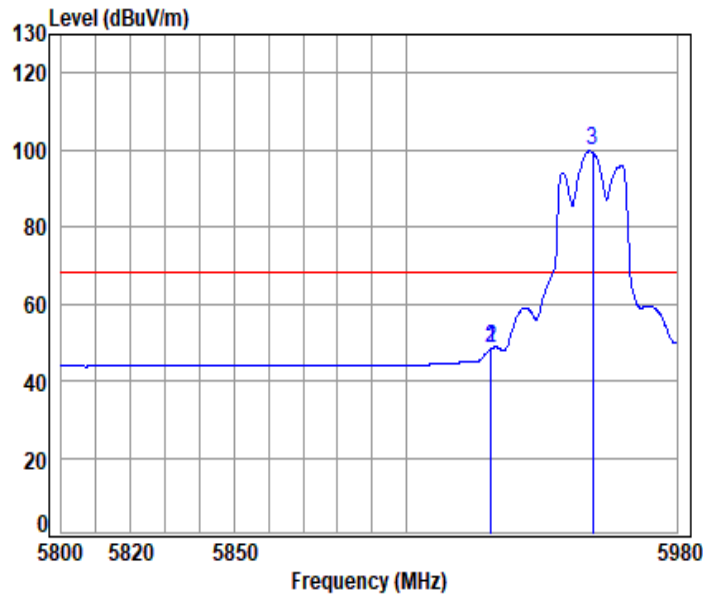
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	47.84	61.48	88.20	-26.72	peak
2	5925.059	10.87	33.55	30.78	47.84	61.48	88.20	-26.72	peak
3	pp 5955.000	10.85	33.62	30.79	97.79	111.47	88.20	23.27	peak



11ax_20M_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

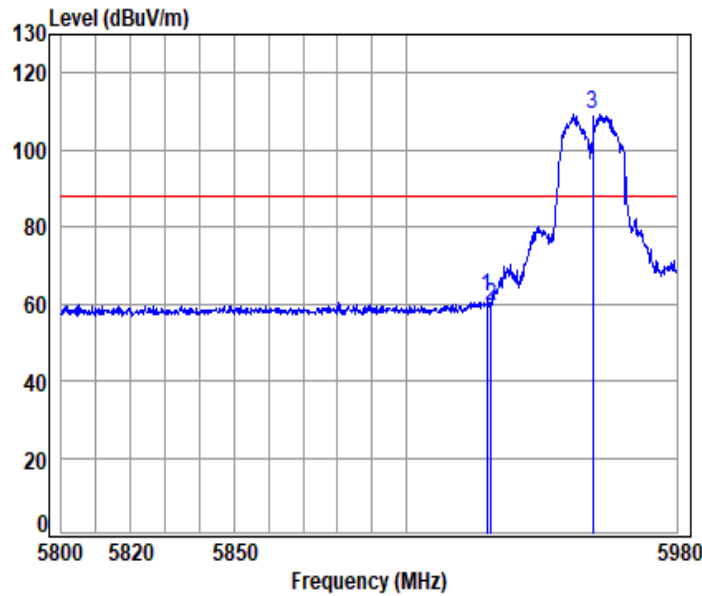
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	34.67	48.31	68.20	-19.89	Average
2	5925.059	10.87	33.55	30.78	34.67	48.31	68.20	-19.89	Average
3 pp	5955.000	10.85	33.62	30.79	86.16	99.84	68.20	31.64	Average



11ax_20M_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

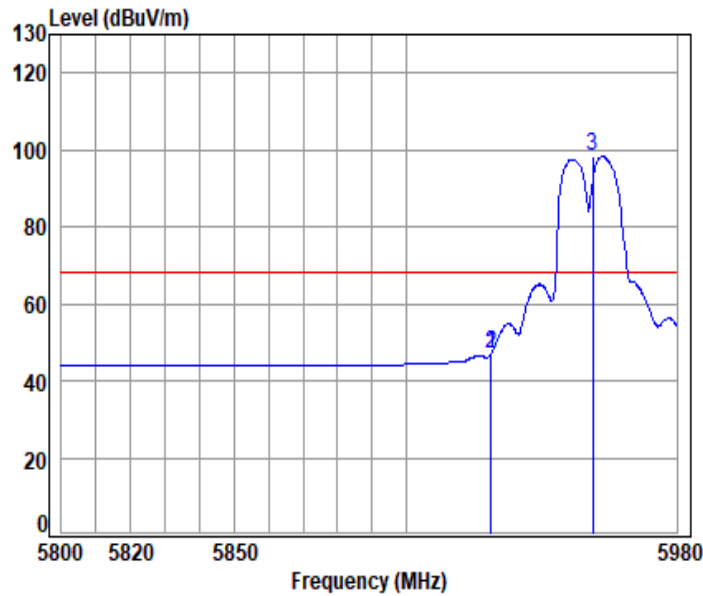
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.973	10.87	33.55	30.78	48.30	61.94	88.20	-26.26	peak
2	5925.000	10.87	33.55	30.78	45.48	59.12	88.20	-29.08	peak
3 pp	5955.000	10.85	33.62	30.79	95.48	109.16	88.20	20.96	peak



11ax_20M_TX_CH_001_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

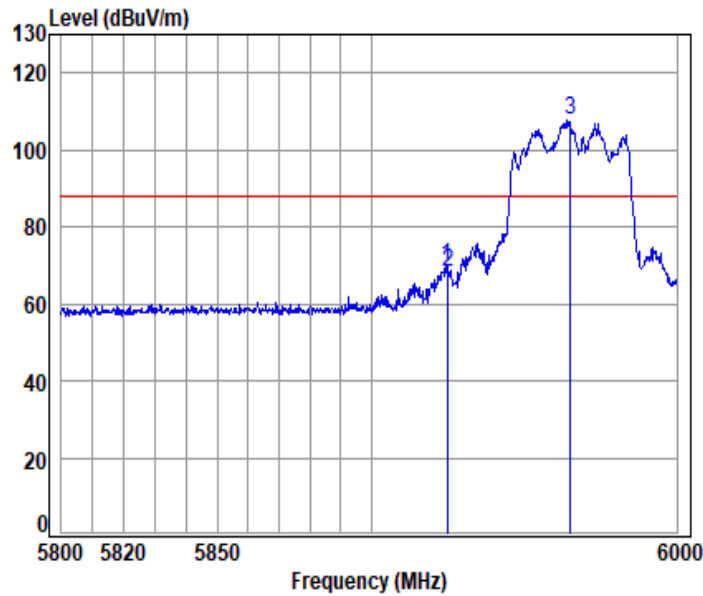
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	33.41	47.05	68.20	-21.15	Average
2	5925.059	10.87	33.55	30.78	33.41	47.05	68.20	-21.15	Average
3 pp	5955.000	10.85	33.62	30.79	84.54	98.22	68.20	30.02	Average



11ax_40M_TX_CH_003_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

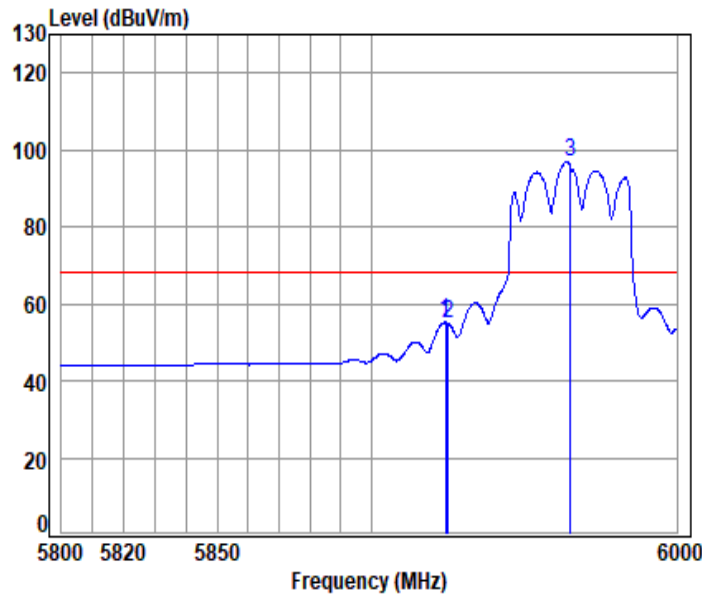
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.606	10.87	33.55	30.78	55.98	69.62	88.20	-18.58	peak
2	5925.000	10.87	33.55	30.78	54.53	68.17	88.20	-20.03	peak
3 pp	5965.000	10.84	33.66	30.79	93.81	107.52	88.20	19.32	peak



11ax_40M_TX_CH_003_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

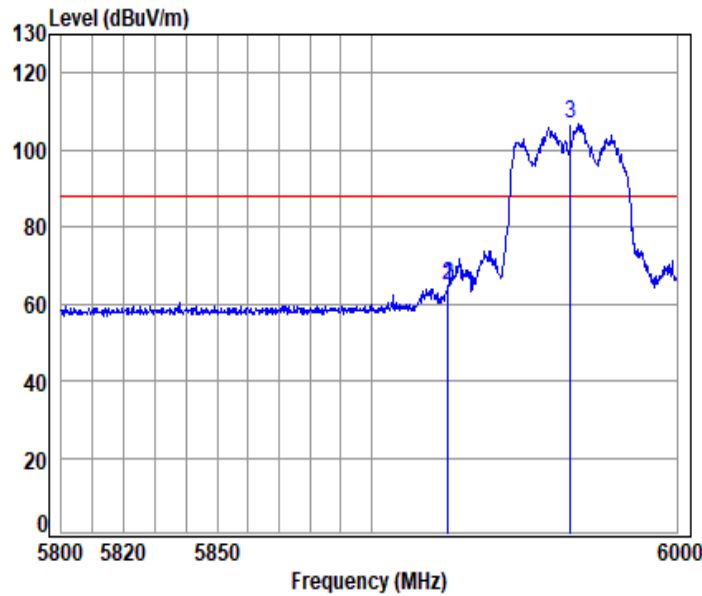
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.003	10.87	33.55	30.78	41.51	55.15	68.20	-13.05	Average
2	5925.000	10.87	33.55	30.78	41.25	54.89	68.20	-13.31	Average
3 pp	5965.000	10.84	33.66	30.79	83.24	96.95	68.20	28.75	Average



11ax_40M_TX_CH_003_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

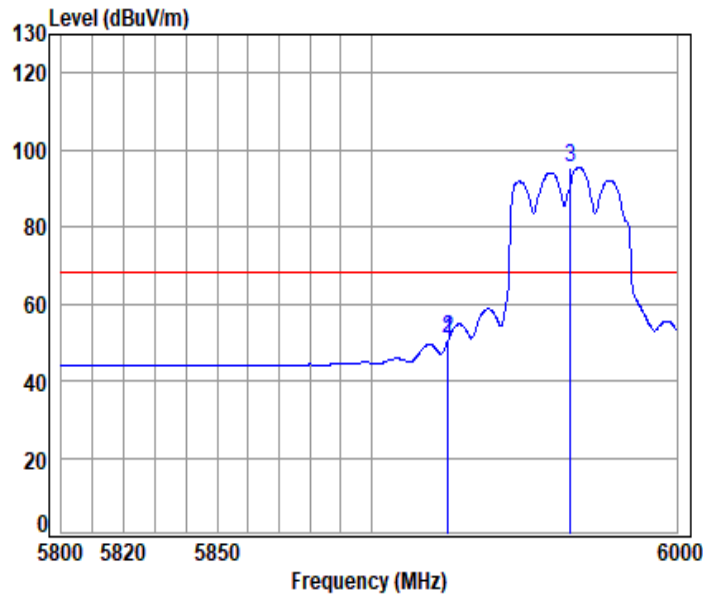
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.807	10.87	33.55	30.78	51.15	64.79	88.20	-23.41	peak
2	5925.000	10.87	33.55	30.78	51.16	64.80	88.20	-23.40	peak
3 pp	5965.000	10.84	33.66	30.79	92.99	106.70	88.20	18.50	peak



11ax_40M_TX_CH_003_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

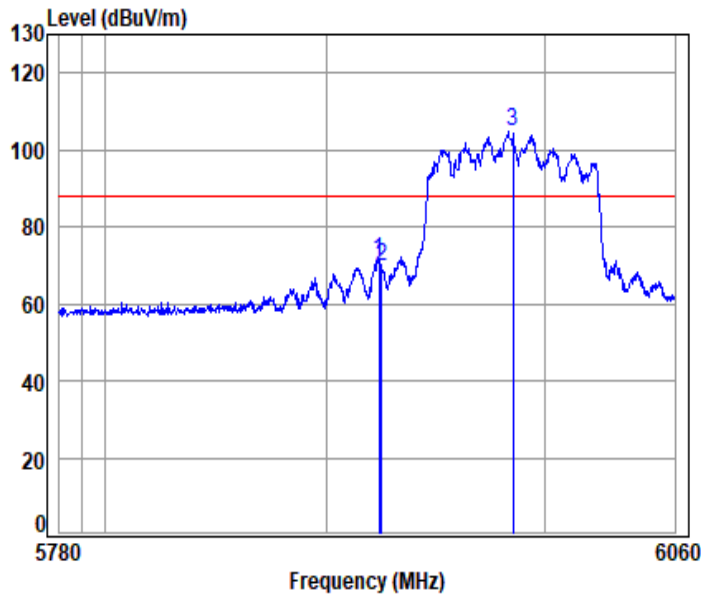
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.807	10.87	33.55	30.78	36.93	50.57	68.20	-17.63	Average
2	5925.000	10.87	33.55	30.78	37.33	50.97	68.20	-17.23	Average
3 pp	5965.000	10.84	33.66	30.79	81.66	95.37	68.20	27.17	Average



11ax_80M_TX_CH_007_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

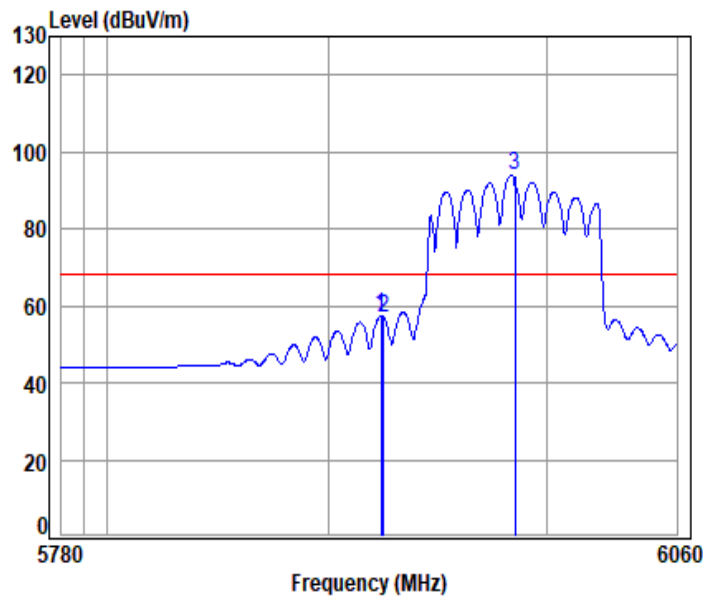
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.946	10.87	33.55	30.78	57.77	71.41	88.20	-16.79	peak
2	5925.000	10.87	33.55	30.78	56.03	69.67	88.20	-18.53	peak
3 pp	5985.000	10.82	33.74	30.80	91.13	104.89	88.20	16.69	peak



11ax_80M_TX_CH_007_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

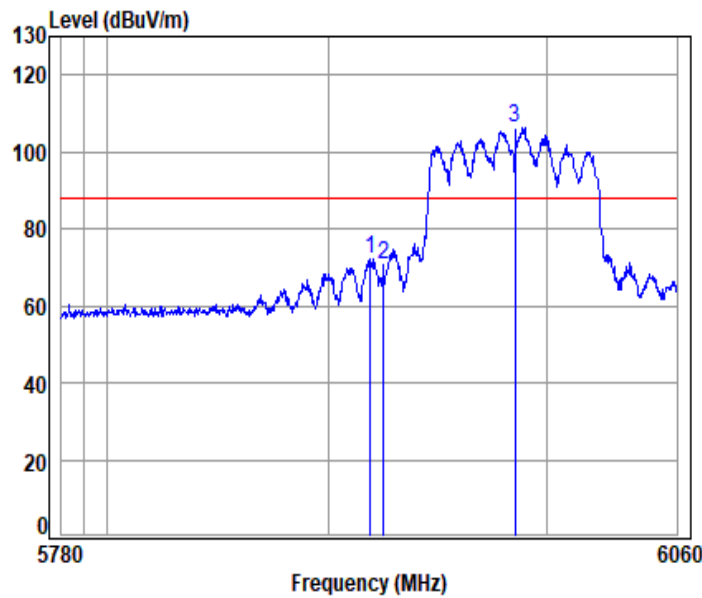
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.946	10.87	33.55	30.78	43.76	57.40	68.20	-10.80	Average
2	5925.000	10.87	33.55	30.78	43.27	56.91	68.20	-11.29	Average
3 pp	5985.000	10.82	33.74	30.80	80.06	93.82	68.20	25.62	Average



11ax_80M_TX_CH_007_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

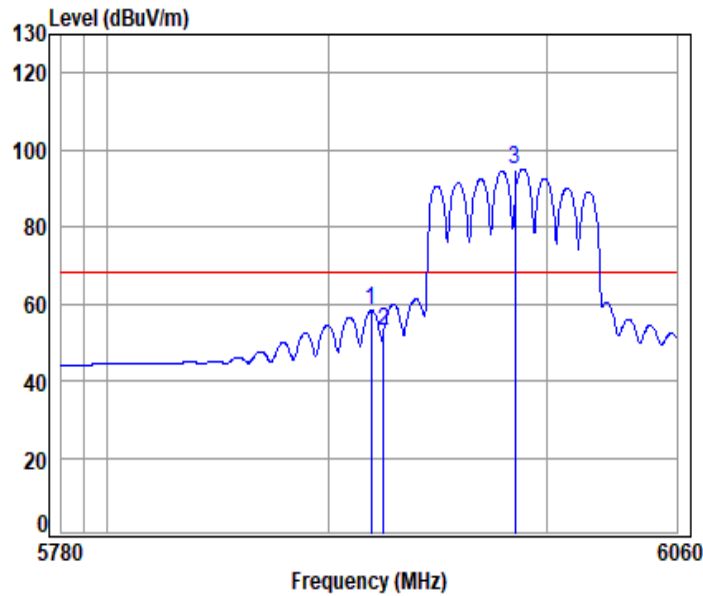
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5918.904	10.87	33.54	30.78	58.54	72.17	88.20	-16.03 peak
2	5925.000	10.87	33.55	30.78	57.00	70.64	88.20	-17.56 peak
3 pp	5985.000	10.82	33.74	30.80	92.75	106.51	88.20	18.31 peak



11ax_80M_TX_CH_007_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

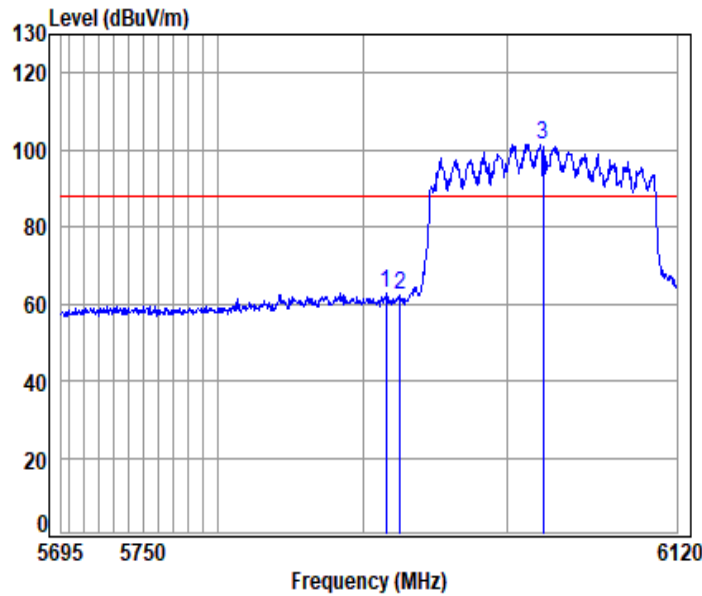
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5919.464	10.87	33.54	30.78	44.57	58.20	68.20	-10.00 Average
2	5925.000	10.87	33.55	30.78	39.14	52.78	68.20	-15.42 Average
3 pp	5985.000	10.82	33.74	30.80	81.19	94.95	68.20	26.75 Average



11ax_160M_TX_CH_015_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

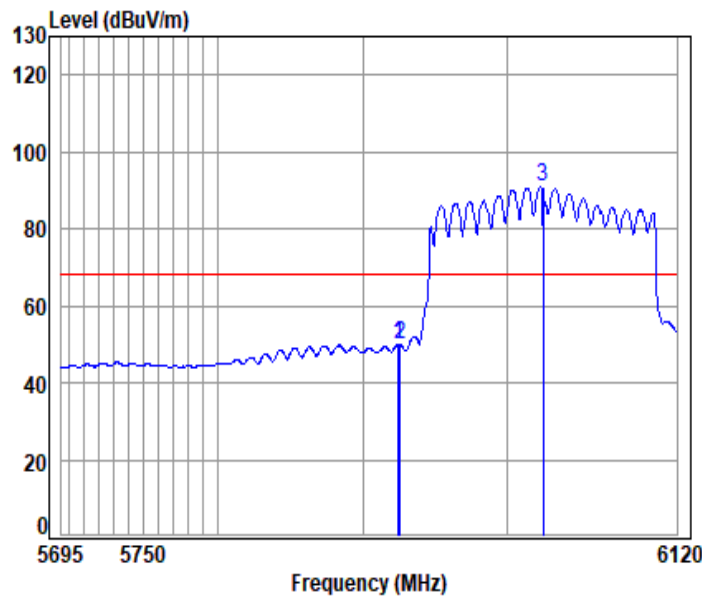
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5915.161	10.88	33.53	30.78	49.19	62.82	88.20	-25.38	peak
2	5925.000	10.87	33.55	30.78	48.55	62.19	88.20	-26.01	peak
3	pp 6025.000	10.82	33.85	30.81	87.65	101.51	88.20	13.31	peak



11ax_160M_TX_CH_015_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

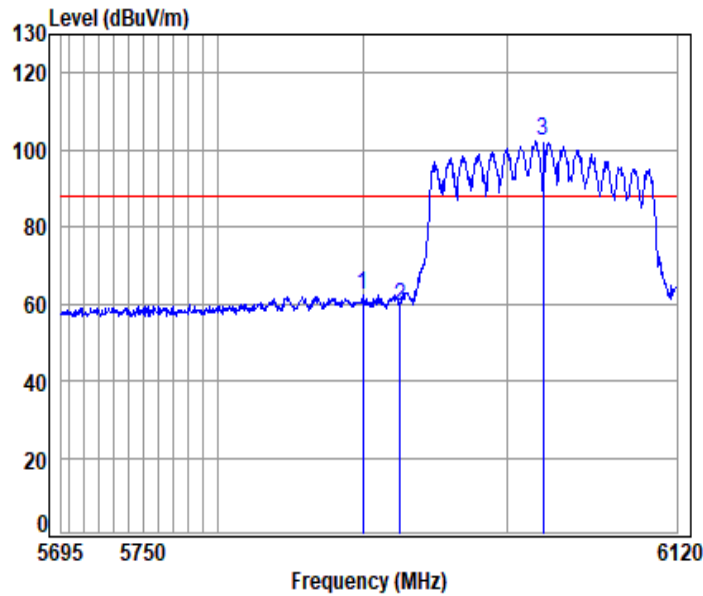
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.108	10.87	33.55	30.78	36.43	50.07	68.20	-18.13	Average
2	5925.000	10.87	33.55	30.78	36.31	49.95	68.20	-18.25	Average
3 pp	6025.000	10.82	33.85	30.81	77.20	91.06	68.20	22.86	Average



11ax_160M_TX_CH_015_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

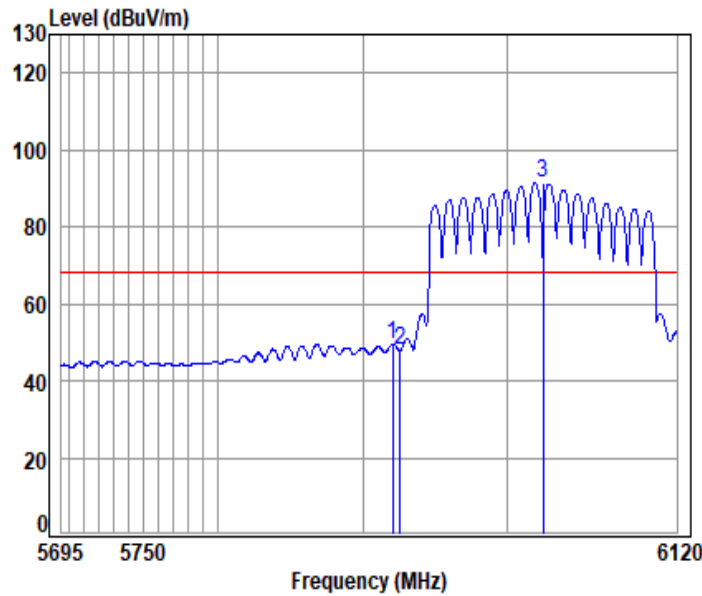
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5899.429	10.89	33.50	30.77	48.76	62.38	88.20	-25.82	peak
2	5925.000	10.87	33.55	30.78	45.90	59.54	88.20	-28.66	peak
3	pp 6025.000	10.82	33.85	30.81	88.59	102.45	88.20	14.25	peak



11ax_160M_TX_CH_015_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

Mode : 6025 Band edge

: Wi-Fi 6E 11ax160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5919.845	10.87	33.54	30.78	35.99	49.62	68.20	-18.58	Average
2	5925.000	10.87	33.55	30.78	34.11	47.75	68.20	-20.45	Average
3 pp	6025.000	10.82	33.85	30.81	77.56	91.42	68.20	23.22	Average



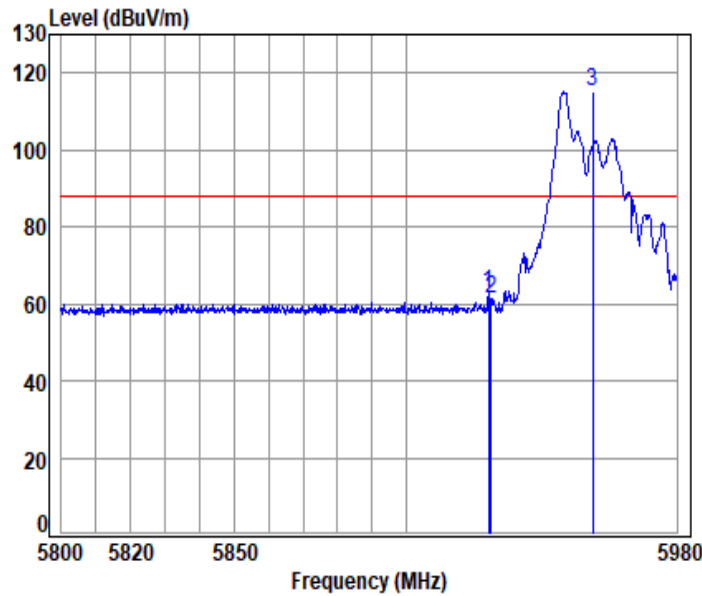
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

11ax_20M_Partial_RU26_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

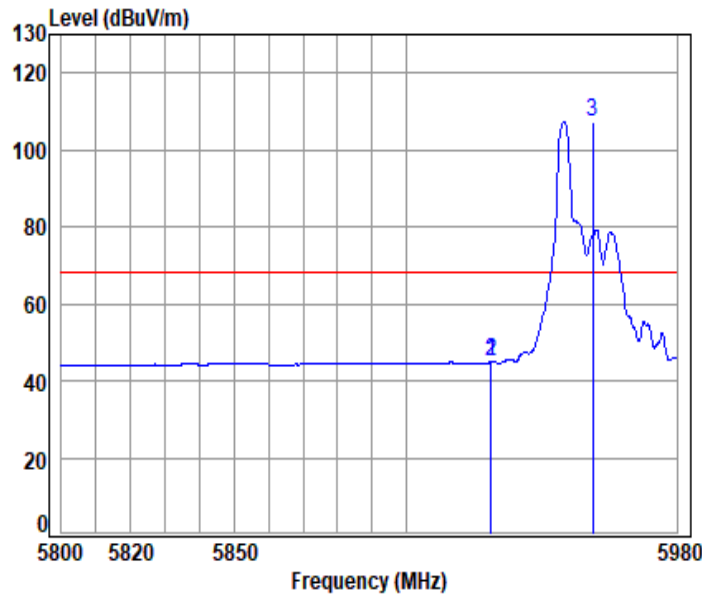
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU26

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.335	10.87	33.55	30.78	49.27	62.91	88.20	-25.29	peak
2	5925.000	10.87	33.55	30.78	47.60	61.24	88.20	-26.96	peak
3 pp	5955.000	10.85	33.62	30.79	101.27	114.95	88.20	26.75	peak



11ax_20M_Partial_RU26_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

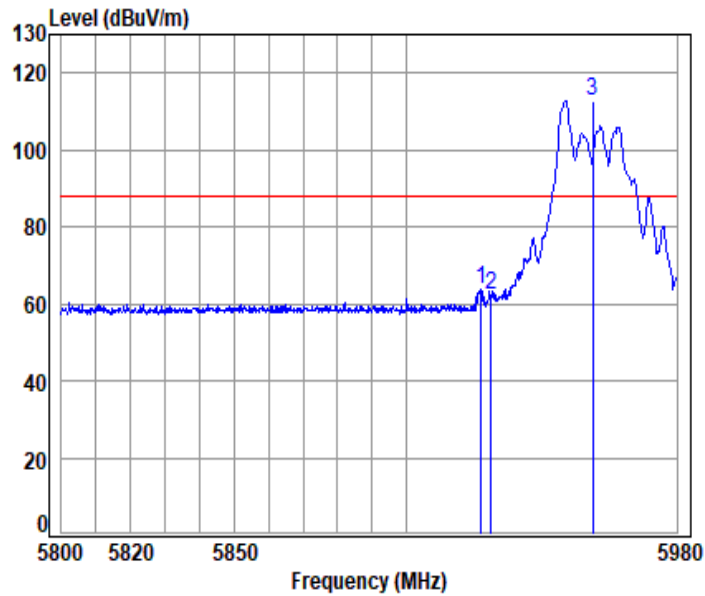
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU26

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	31.17	44.81	68.20	-23.39	Average
2	5925.059	10.87	33.55	30.78	31.17	44.81	68.20	-23.39	Average
3 pp	5955.000	10.85	33.62	30.79	93.46	107.14	68.20	38.94	Average



11ax_20M_Partial_RU26_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

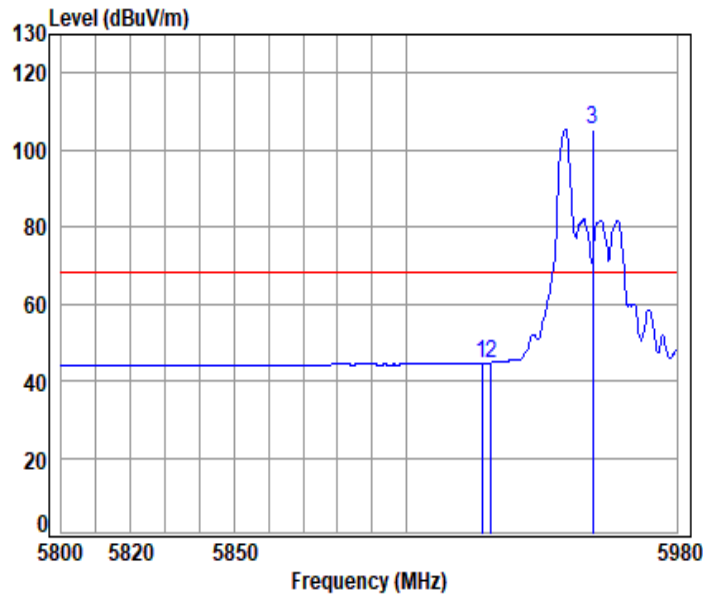
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU26

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5922.163	10.87	33.54	30.78	49.98	63.61	88.20	-24.59	peak
2	5925.000	10.87	33.55	30.78	48.69	62.33	88.20	-25.87	peak
3 pp	5955.000	10.85	33.62	30.79	99.19	112.87	88.20	24.67	peak



11ax_20M_Partial_RU26_TX_CH_001_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

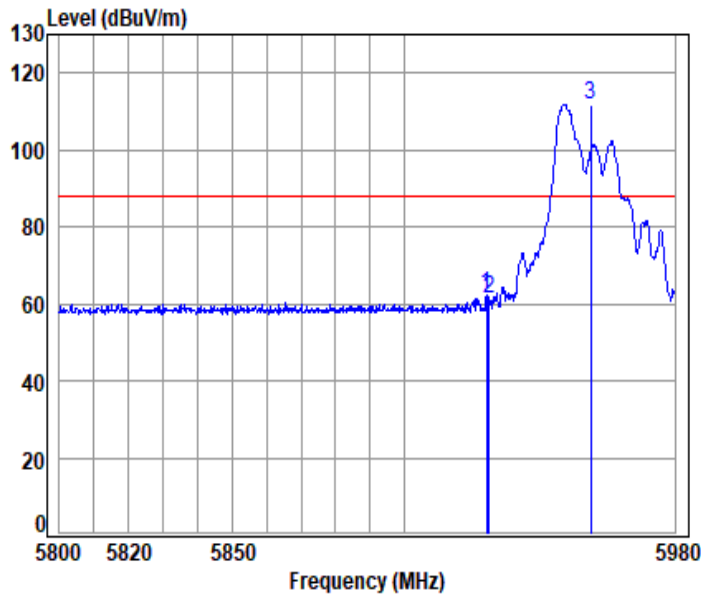
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU26

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5922.524	10.87	33.55	30.78	31.07	44.71	68.20	-23.49	Average
2	5925.000	10.87	33.55	30.78	31.07	44.71	68.20	-23.49	Average
3 pp	5955.000	10.85	33.62	30.79	91.53	105.21	68.20	37.01	Average



11ax_20M_Partial_RU52_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

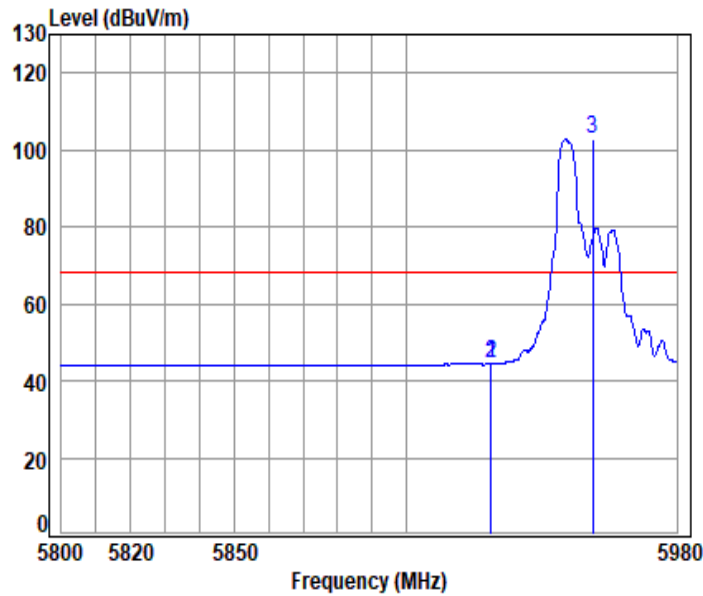
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.335	10.87	33.55	30.78	48.40	62.04	88.20	-26.16	peak
2	5925.000	10.87	33.55	30.78	47.79	61.43	88.20	-26.77	peak
3 pp	5955.000	10.85	33.62	30.79	98.17	111.85	88.20	23.65	peak



11ax_20M_Partial_RU52_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

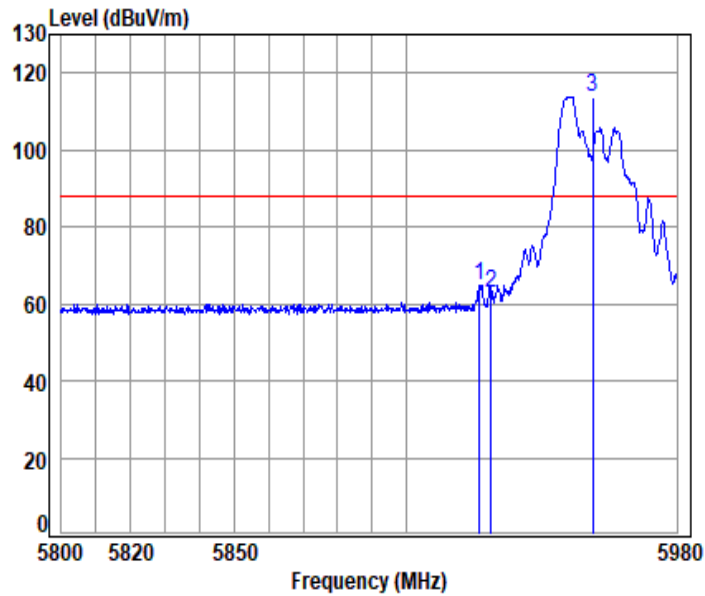
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	31.03	44.67	68.20	-23.53	Average
2	5925.059	10.87	33.55	30.78	31.03	44.67	68.20	-23.53	Average
3 pp	5955.000	10.85	33.62	30.79	88.93	102.61	68.20	34.41	Average



11ax_20M_Partial_RU52_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

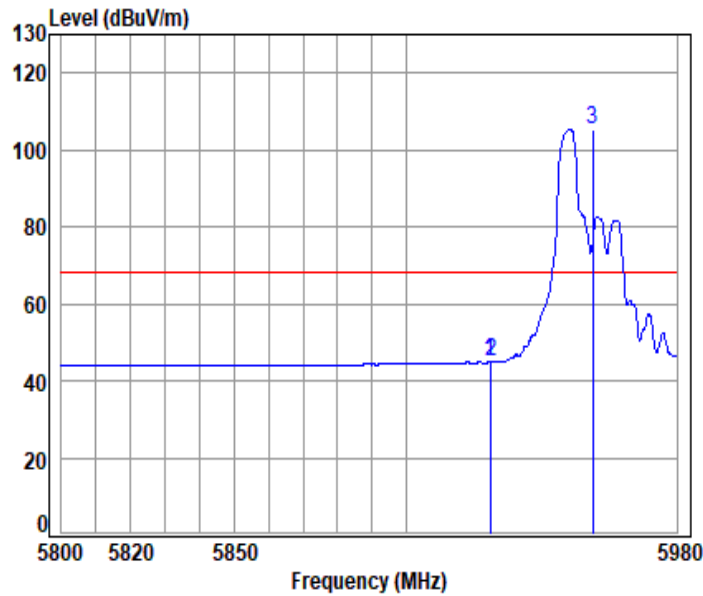
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5921.800	10.87	33.54	30.78	51.35	64.98	88.20	-23.22	peak
2	5925.000	10.87	33.55	30.78	48.90	62.54	88.20	-25.66	peak
3 pp	5955.000	10.85	33.62	30.79	100.23	113.91	88.20	25.71	peak



11ax_20M_Partial_RU52_TX_CH_001_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

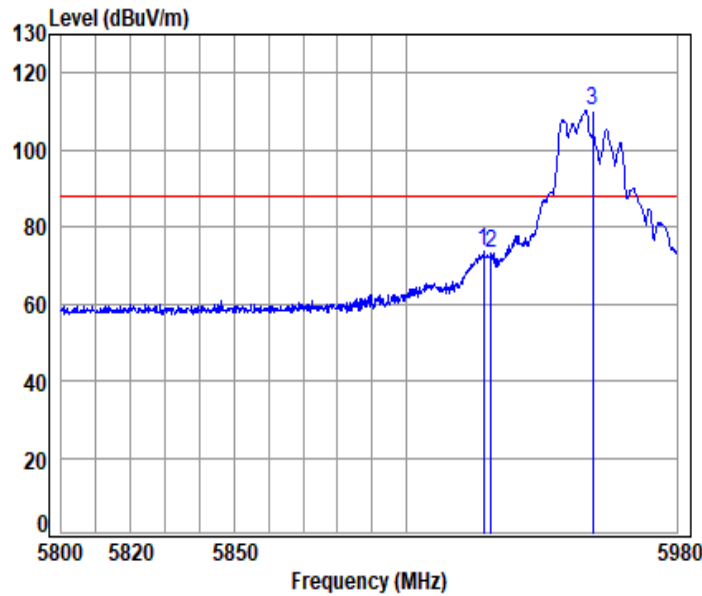
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.878	10.87	33.55	30.78	31.35	44.99	68.20	-23.21	Average
2	5925.000	10.87	33.55	30.78	31.35	44.99	68.20	-23.21	Average
3 pp	5955.000	10.85	33.62	30.79	91.50	105.18	68.20	36.98	Average



11ax_20M_Partial_RU106_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

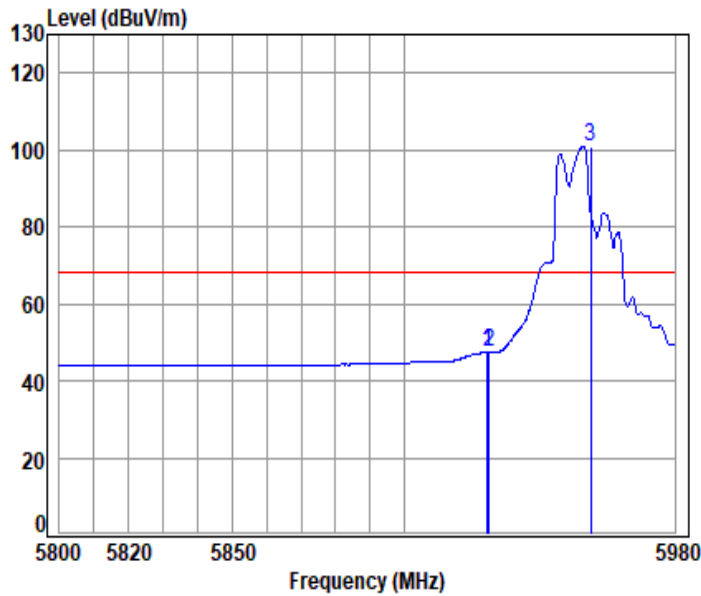
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU106

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5922.886	10.87	33.55	30.78	59.89	73.53	88.20	-14.67	peak
2	5925.000	10.87	33.55	30.78	59.54	73.18	88.20	-15.02	peak
3 pp	5955.000	10.85	33.62	30.79	96.71	110.39	88.20	22.19	peak



11ax_20M_Partial_RU106_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

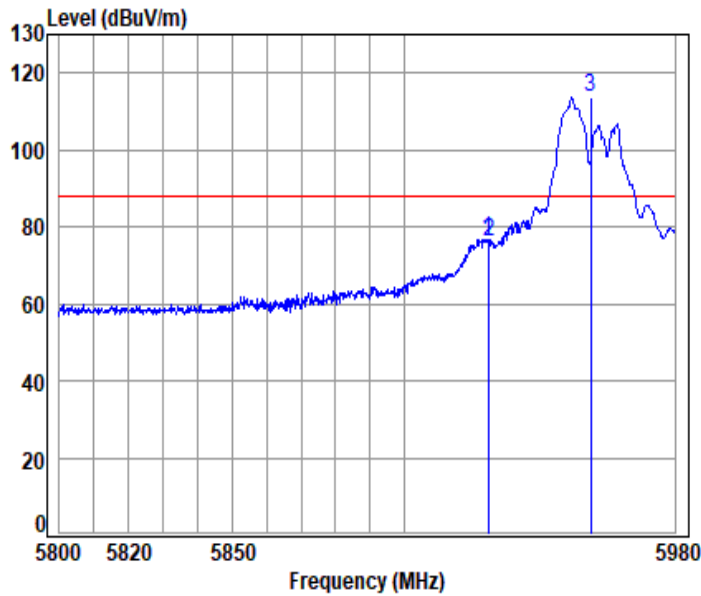
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU106

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.516	10.87	33.55	30.78	33.76	47.40	68.20	-20.80	Average
2	5925.000	10.87	33.55	30.78	33.76	47.40	68.20	-20.80	Average
3 pp	5955.000	10.85	33.62	30.79	87.20	100.88	68.20	32.68	Average



11ax_20M_Partial_RU106_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

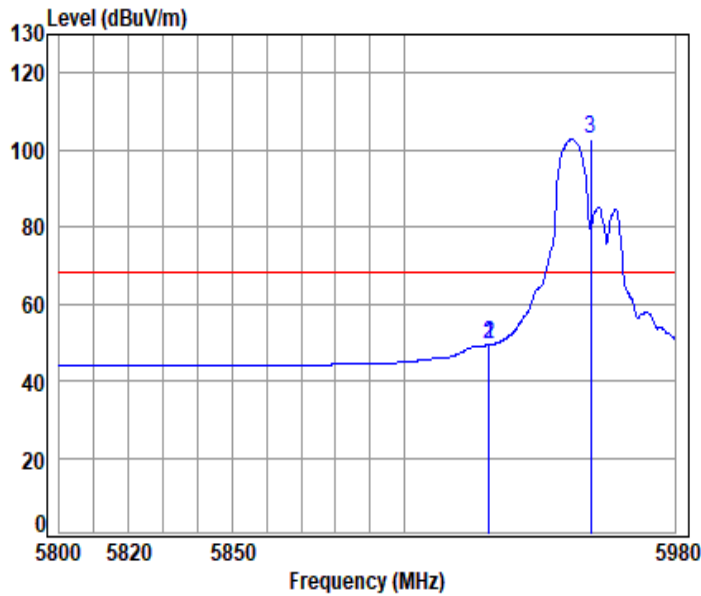
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU106

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.878	10.87	33.55	30.78	63.11	76.75	88.20	-11.45	peak
2	5925.000	10.87	33.55	30.78	62.67	76.31	88.20	-11.89	peak
3 pp	5955.000	10.85	33.62	30.79	99.78	113.46	88.20	25.26	peak



11ax_20M_Partial_RU106_TX_CH_001_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

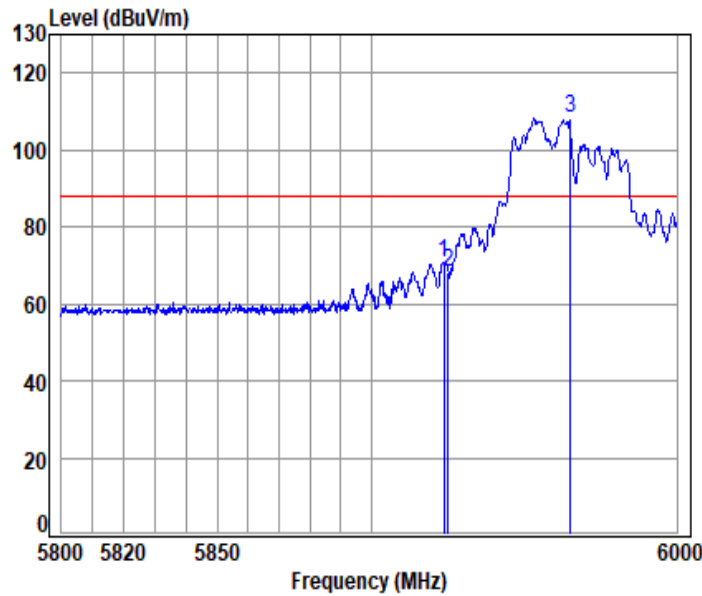
Mode : 5955 Band edge

: Wi-Fi 6E 11ax20 RU106

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.78	35.70	49.34	68.20	-18.86	Average
2	5925.059	10.87	33.55	30.78	35.70	49.34	68.20	-18.86	Average
3 pp	5955.000	10.85	33.62	30.79	89.01	102.69	68.20	34.49	Average



11ax_40M_Partial_RU242_TX_CH_003_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

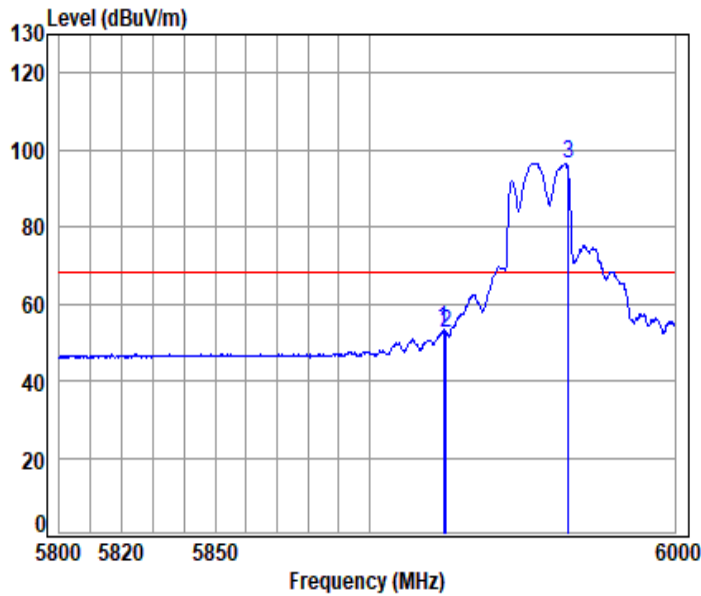
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40 RU242

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.602	10.87	33.55	30.78	57.09	70.73	88.20	-17.47	peak
2	5925.000	10.87	33.55	30.78	54.34	67.98	88.20	-20.22	peak
3 pp	5965.000	10.84	33.66	30.79	94.40	108.11	88.20	19.91	peak



11ax_40M_Partial_RU242_TX_CH_003_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

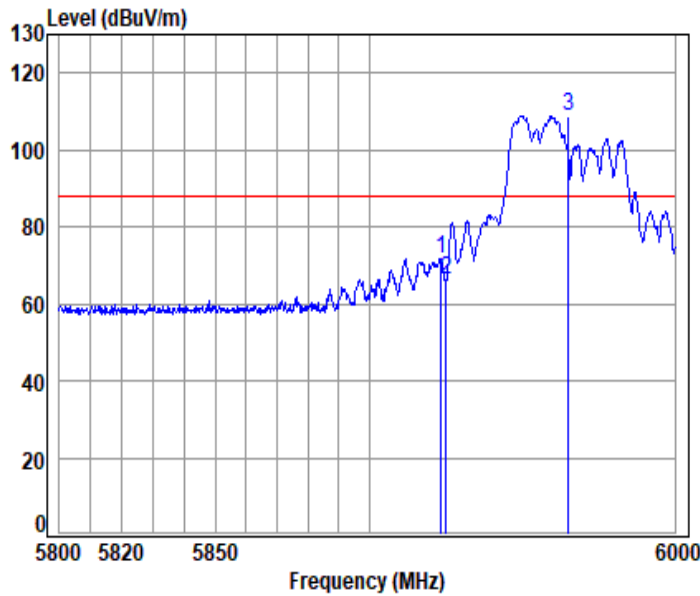
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40 RU242

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.003	10.87	33.55	30.78	39.65	53.29	68.20	-14.91	Average
2	5925.000	10.87	33.55	30.78	38.59	52.23	68.20	-15.97	Average
3 pp	5965.000	10.84	33.66	30.79	82.84	96.55	68.20	28.35	Average



11ax_40M_Partial_RU242_TX_CH_003_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

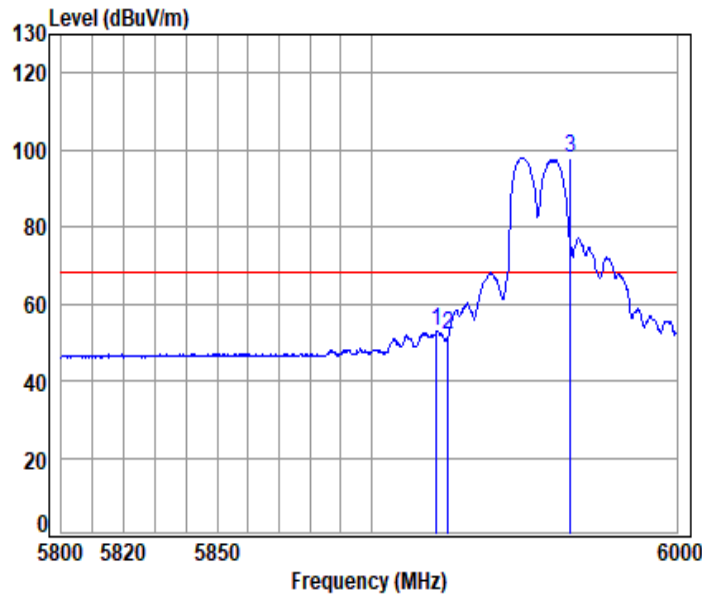
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40 RU242

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.200	10.87	33.55	30.78	58.18	71.82	88.20	-16.38	peak
2	5925.000	10.87	33.55	30.78	52.78	66.42	88.20	-21.78	peak
3 pp	5965.000	10.84	33.66	30.79	95.08	108.79	88.20	20.59	peak



11ax_40M_Partial_RU242_TX_CH_003_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

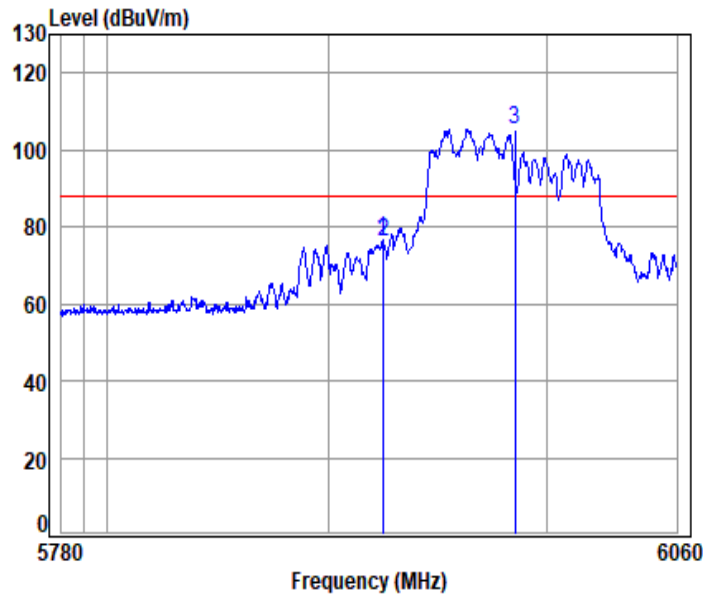
Mode : 5965 Band edge

: Wi-Fi 6E 11ax40 RU242

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5920.992	10.87	33.54	30.78	39.26	52.89	68.20	-15.31	Average
2	5925.000	10.87	33.55	30.78	38.04	51.68	68.20	-16.52	Average
3 pp	5965.000	10.84	33.66	30.79	84.22	97.93	68.20	29.73	Average



11ax_80M_Partial_RU484_TX_CH_007_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

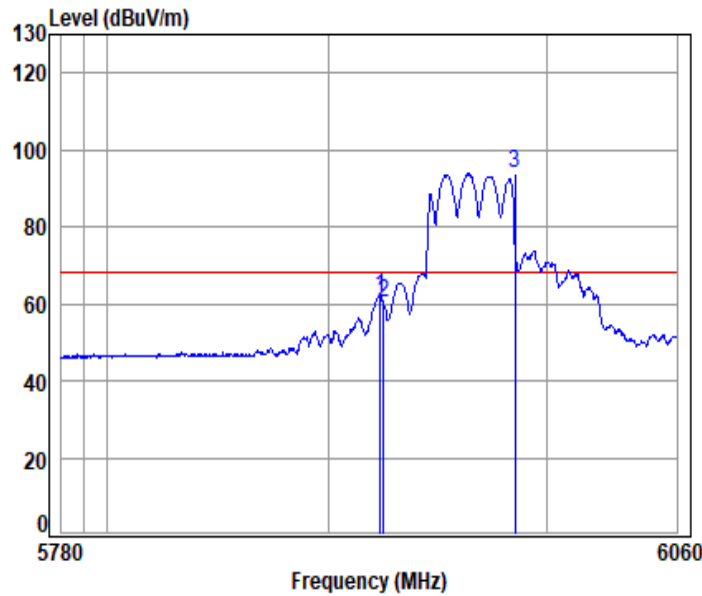
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80 RU484

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.507	10.87	33.55	30.78	62.95	76.59	88.20	-11.61	peak
2	5925.000	10.87	33.55	30.78	62.34	75.98	88.20	-12.22	peak
3	pp 5985.000	10.82	33.74	30.80	91.43	105.19	88.20	16.99	peak



11ax_80M_Partial_RU484_TX_CH_007_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

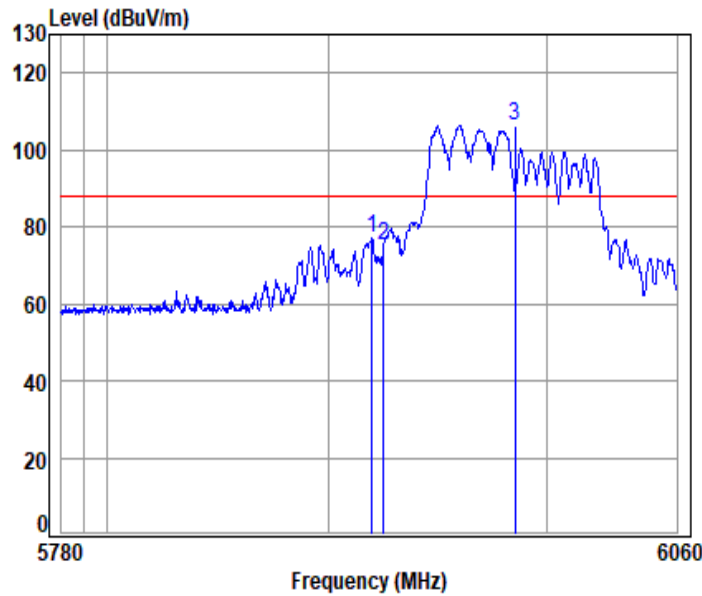
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80 RU484

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.386	10.87	33.55	30.78	48.24	61.88	68.20	-6.32	Average
2	5925.000	10.87	33.55	30.78	46.59	60.23	68.20	-7.97	Average
3 pp	5985.000	10.82	33.74	30.80	80.04	93.80	68.20	25.60	Average



11ax_80M_Partial_RU484_TX_CH_007_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

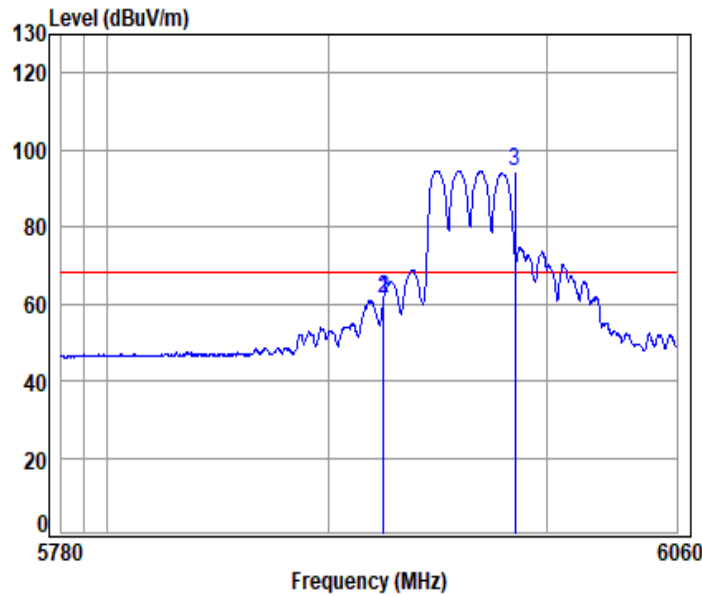
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80 RU484

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5919.745	10.87	33.54	30.78	63.44	77.07	88.20	-11.13	peak
5925.000	10.87	33.55	30.78	61.52	75.16	88.20	-13.04	peak
5985.000	10.82	33.74	30.80	92.57	106.33	88.20	18.13	peak



11ax_80M_Partial_RU484_TX_CH_007_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

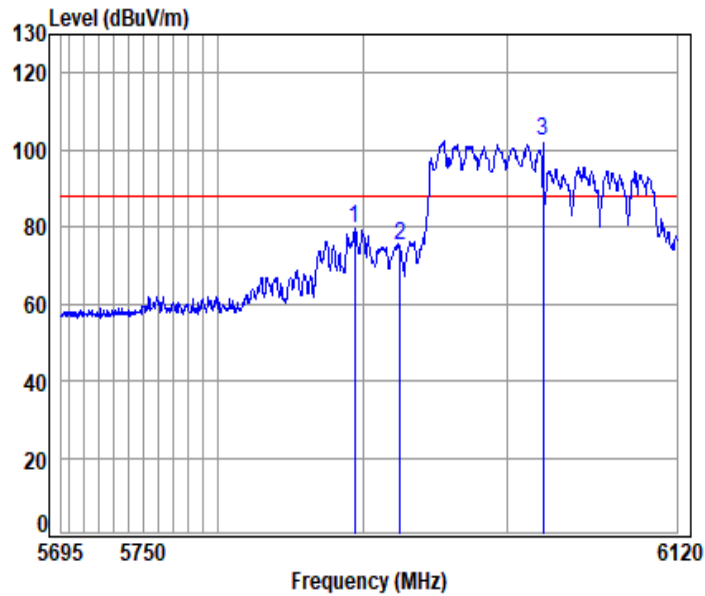
Mode : 5985 Band edge

: Wi-Fi 6E 11ax80 RU484

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5925.000	10.87	33.55	30.78	47.56	61.20	68.20	-7.00 Average
2	5925.067	10.87	33.55	30.78	47.56	61.20	68.20	-7.00 Average
3 pp	5985.000	10.82	33.74	30.80	80.82	94.58	68.20	26.38 Average



11ax_160M_Partial_RU996_TX_CH_015_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03328WM

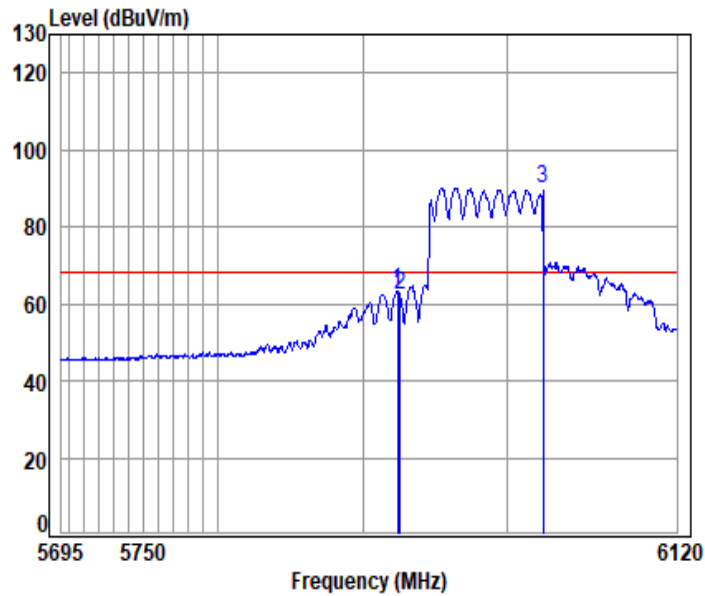
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160 RU996

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5893.912	10.90	33.51	30.77	65.73	79.37	88.20	-8.83	peak
2	5925.000	10.87	33.55	30.78	61.44	75.08	88.20	-13.12	peak
3	6025.000	10.82	33.85	30.81	88.22	102.08	88.20	13.88	peak



11ax_160M_Partial_RU996_TX_CH_015_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03328WM

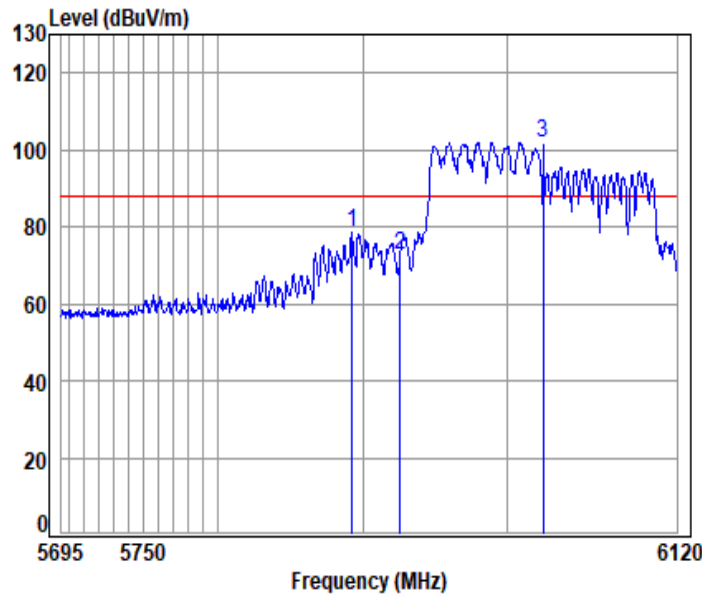
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160 RU996

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.681	10.87	33.55	30.78	49.63	63.27	68.20	-4.93 Average
2	5925.000	10.87	33.55	30.78	48.81	62.45	68.20	-5.75 Average
3 pp	6025.000	10.82	33.85	30.81	76.33	90.19	68.20	21.99 Average



11ax_160M_Partial_RU996_TX_CH_015_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03328WM

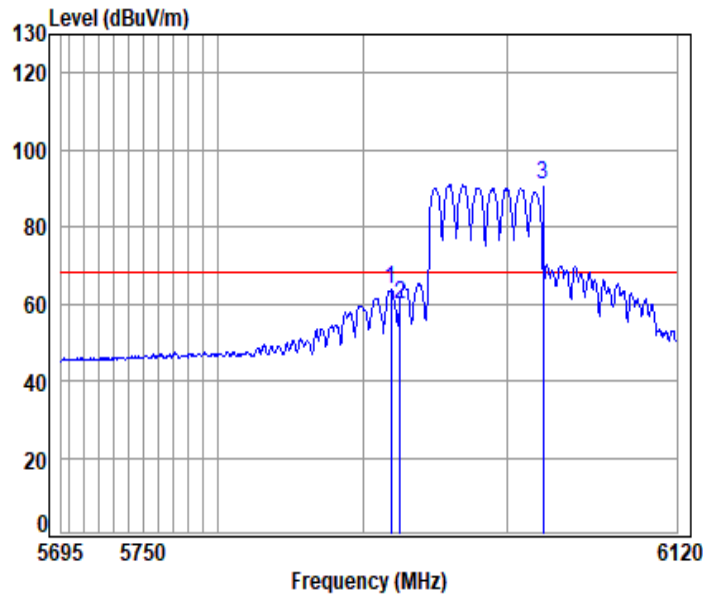
Mode : 6025 Band edge

: Wi-Fi 6E 11ax160 RU996

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5891.792	10.90	33.52	30.77	65.04	78.69	88.20	-9.51	peak
2	5925.000	10.87	33.55	30.78	58.85	72.49	88.20	-15.71	peak
3 pp	6025.000	10.82	33.85	30.81	88.21	102.07	88.20	13.87	peak



11ax_160M_Partial_RU996_TX_CH_015_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03328WM

Mode : 6025 Band edge

: Wi-Fi 6E 11ax160 RU996

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5918.567	10.88	33.54	30.78	49.93	63.57	68.20	-4.63	Average
2	5925.000	10.87	33.55	30.78	46.14	59.78	68.20	-8.42	Average
3 pp	6025.000	10.82	33.85	30.81	76.97	90.83	68.20	22.63	Average



7.5 In-Band Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.407 (b)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and onehalf times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

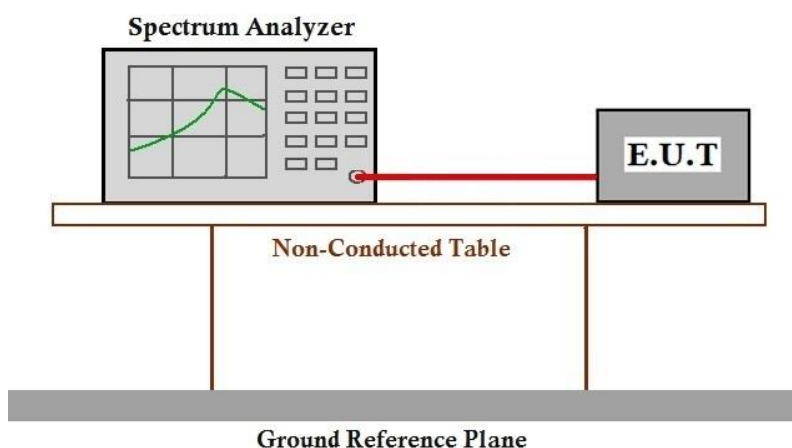
Humidity: 61.9 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 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

7.6 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)
Test Method: KDB 987594 D02

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.6.1 E.U.T. Operation

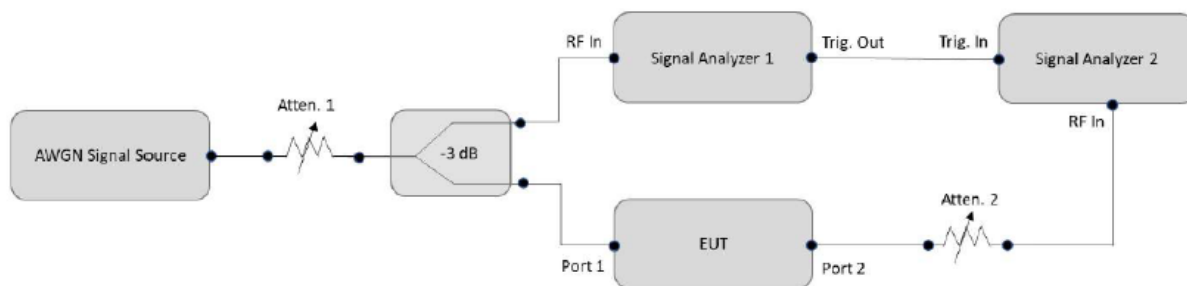
Operating Environment:

Temperature: 26.7 °C Humidity: 43.2 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Detection Level= Injected AWGN Power(dBm)- Antenna Gain(dBi)+ Path Loss(dB)

Please Refer to Appendix for Details

7.7 Duty Cycle

Test Requirement ANSI C63.10 (2020) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.7.1 E.U.T. Operation

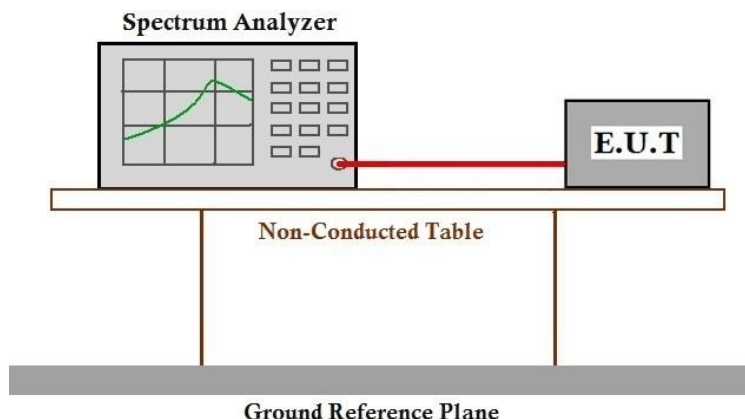
Operating Environment:

Temperature: 19.7 °C Humidity: 61.9 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, 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

7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.4.2

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

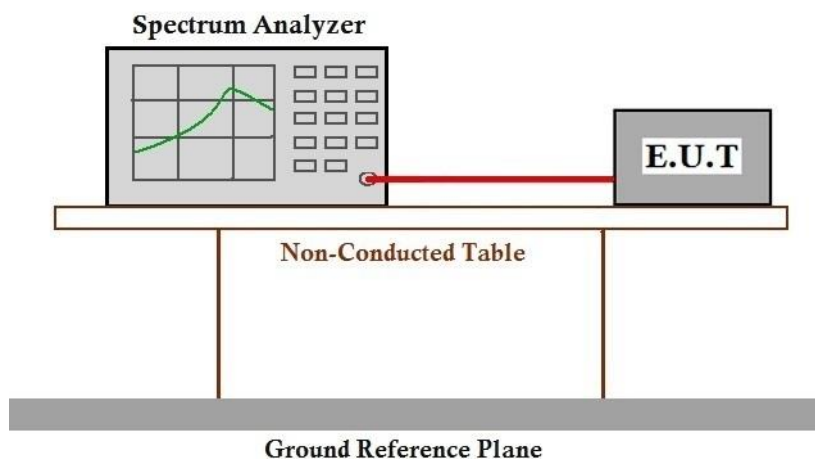
Humidity: 61.9 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, 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 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

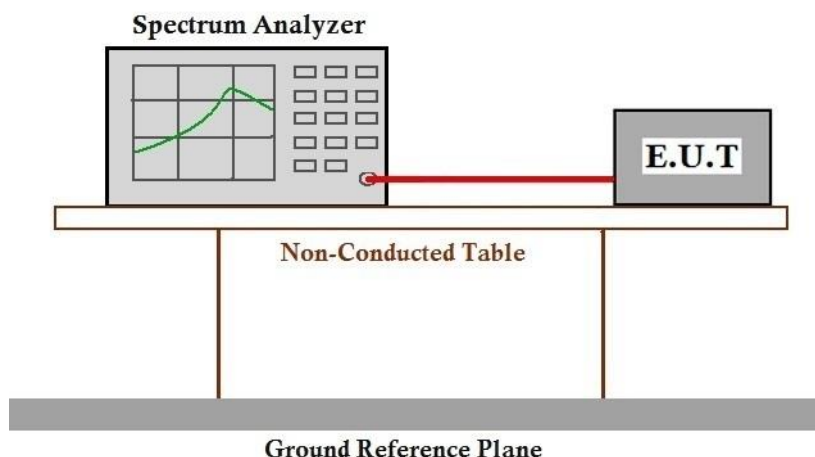
Humidity: 61.9 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

Humidity: 61.9 % RH

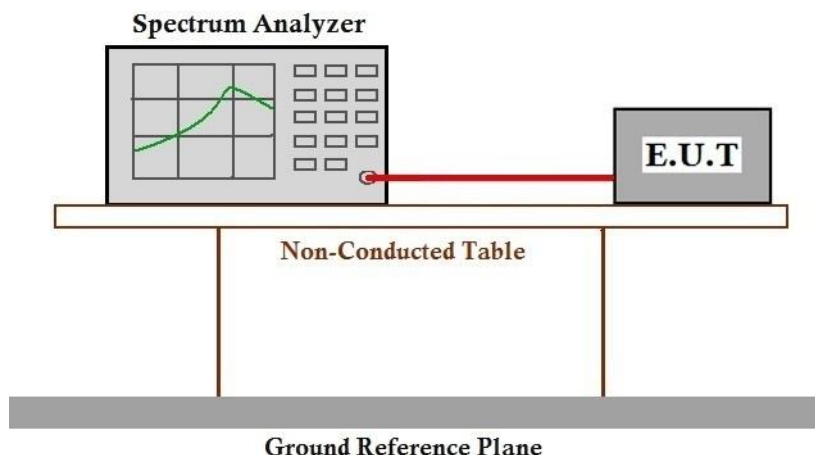
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details



7.11 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

Humidity: 61.9 % RH

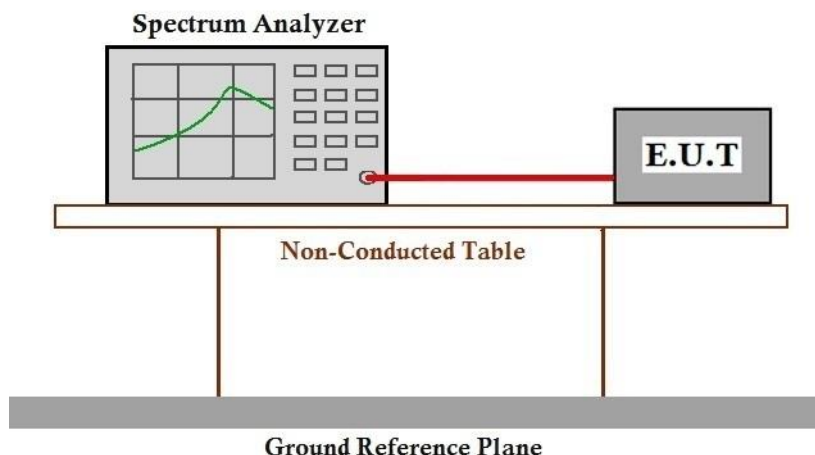
Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

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

7.12 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 19.7 °C

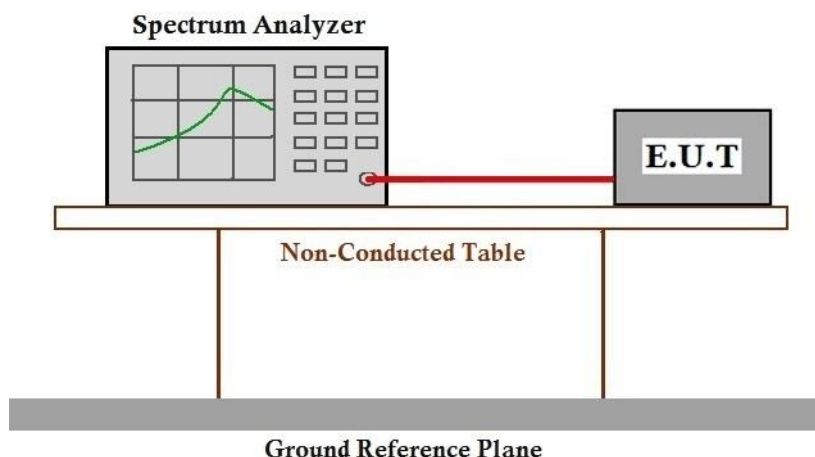
Humidity: 61.9 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	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 @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Please refer to SZCR2507003328WM Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2507003328WM.



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	5.338	5.355	99.68	0.01	0.03
			6175	RU242	Left	5.338	5.355	99.68	0.01	0.03
			6415	RU242	Left	5.339	5.356	99.68	0.01	0.03
	802.11ax (HEW40)	MIMO	5965	RU484	Left	5.391	5.408	99.69	0.01	0.03
			6165	RU484	Left	5.390	5.406	99.70	0.01	0.04
			6405	RU484	Left	5.392	5.408	99.70	0.01	0.04
	802.11ax (HEW80)	MIMO	5985	RU996	Left	5.264	5.281	99.68	0.01	0.04
			6145	RU996	Left	4.490	4.505	99.67	0.01	0.00
			6385	RU996	Left	5.264	5.279	99.72	0.01	0.00
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	4.353	4.370	99.61	0.02	0.03
			6185	2xRU996	Left	4.353	4.370	99.61	0.02	0.03
			6345	2xRU996	Left	4.353	4.370	99.61	0.02	0.04

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 91 of 477

1.1.2 Ant12

Ant12										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	5.339	5.355	99.70	0.01	0.03
			6695	RU242	Left	5.338	5.355	99.68	0.01	0.03
			6855	RU242	Left	5.339	5.356	99.68	0.01	0.03
	802.11ax (HEW40)	MIMO	6565	RU484	Left	5.391	5.408	99.69	0.01	0.03
			6685	RU484	Left	5.390	5.407	99.69	0.01	0.03
			6845	RU484	Left	5.391	5.407	99.70	0.01	0.03
	802.11ax (HEW80)	MIMO	6625	RU996	Left	5.264	5.279	99.72	0.01	0.00
			6705	RU996	Left	5.264	5.280	99.70	0.01	0.04
			6785	RU996	Left	3.669	3.685	99.57	0.02	0.04
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	4.353	4.370	99.61	0.02	0.03



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

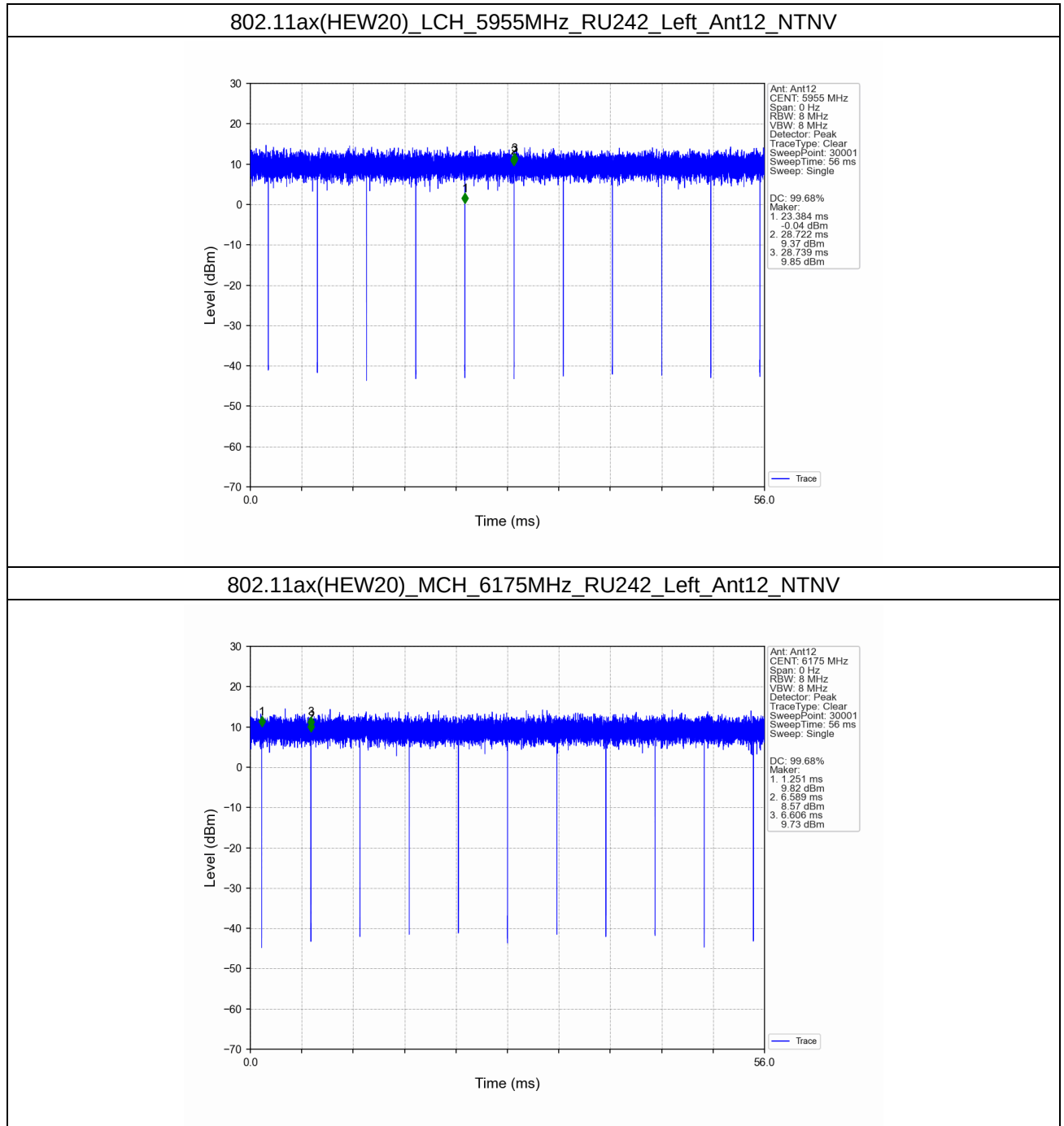
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

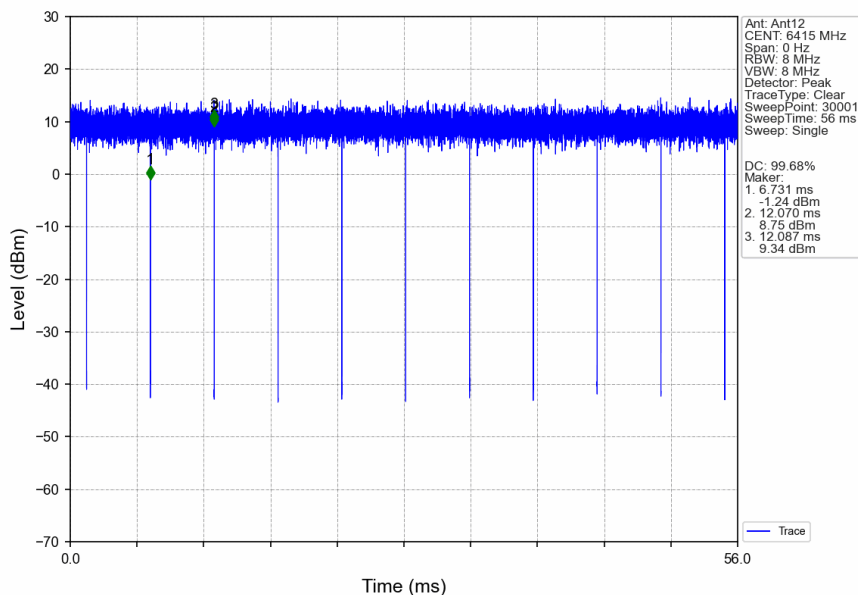
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2 Test Graph

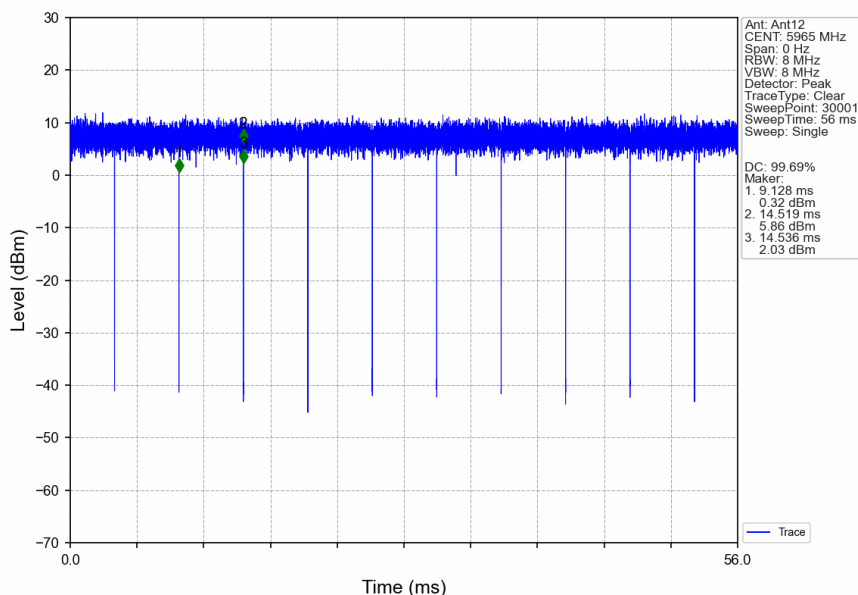
1.2.1 Ant12



802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant12_NTNV



802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant12_NTNV



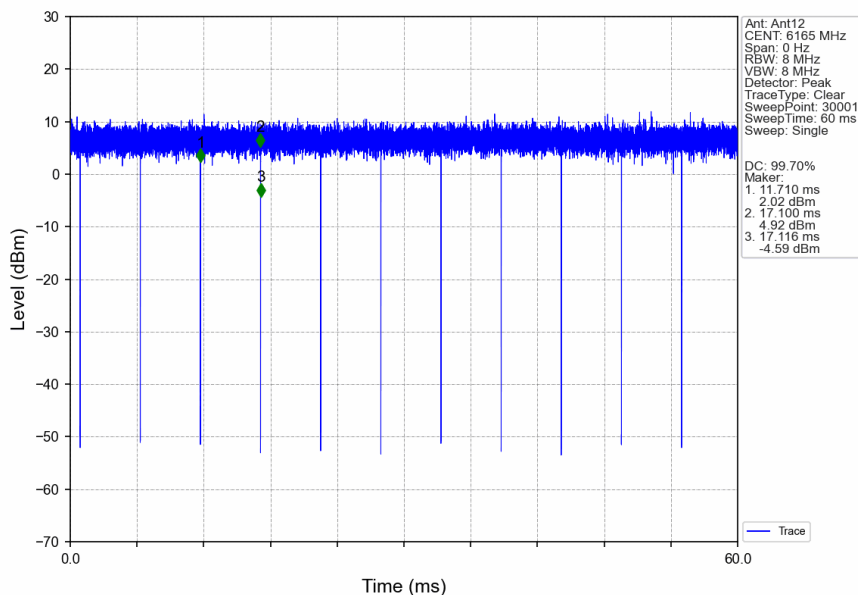
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

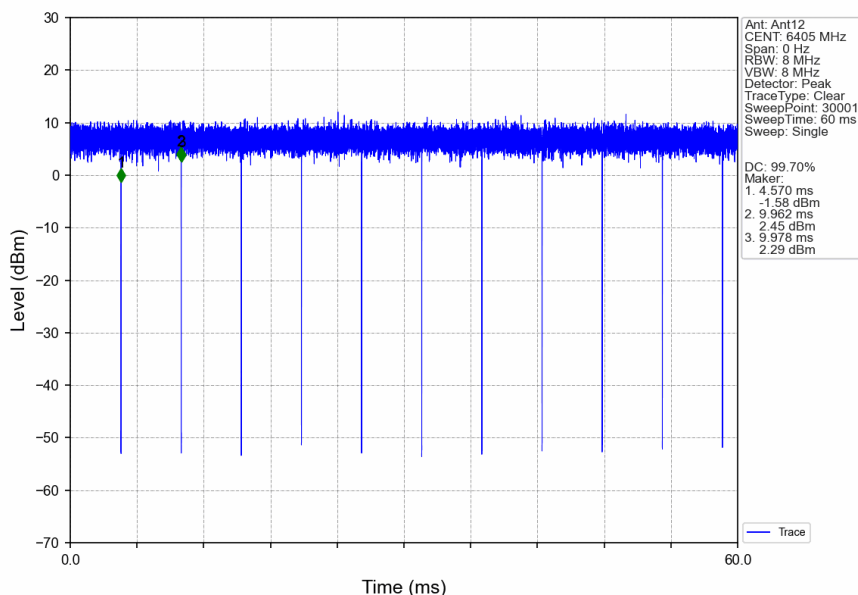
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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(HEW40)_MCH_6165MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant12_NTNV



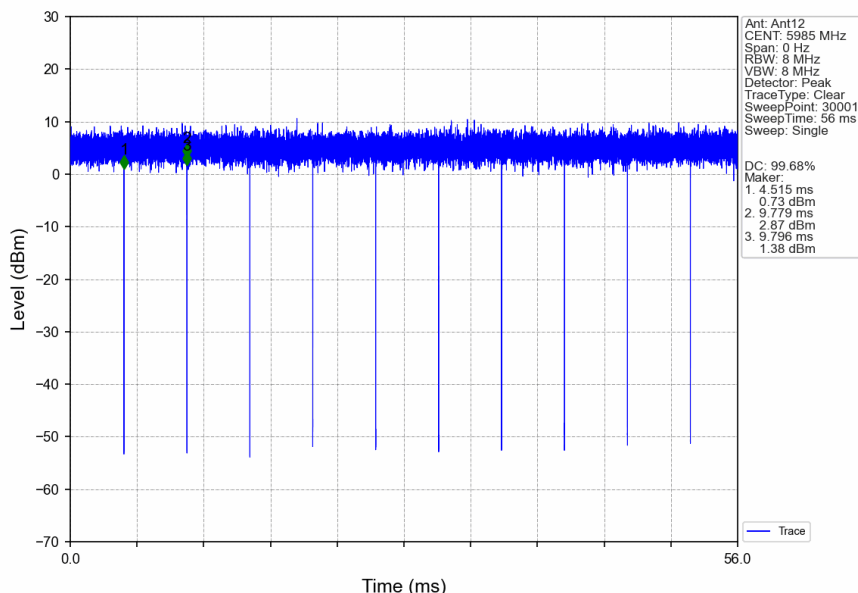
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

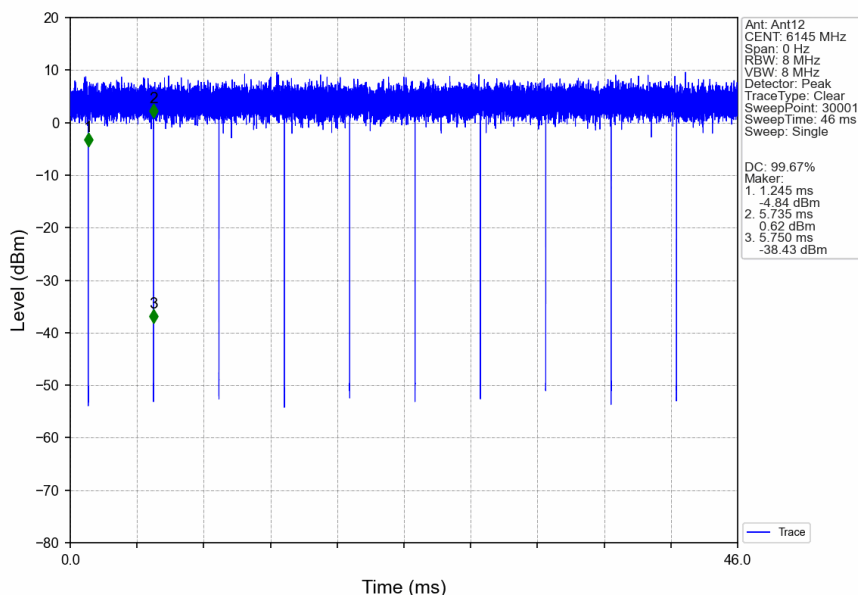
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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.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

802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant12_NTNV



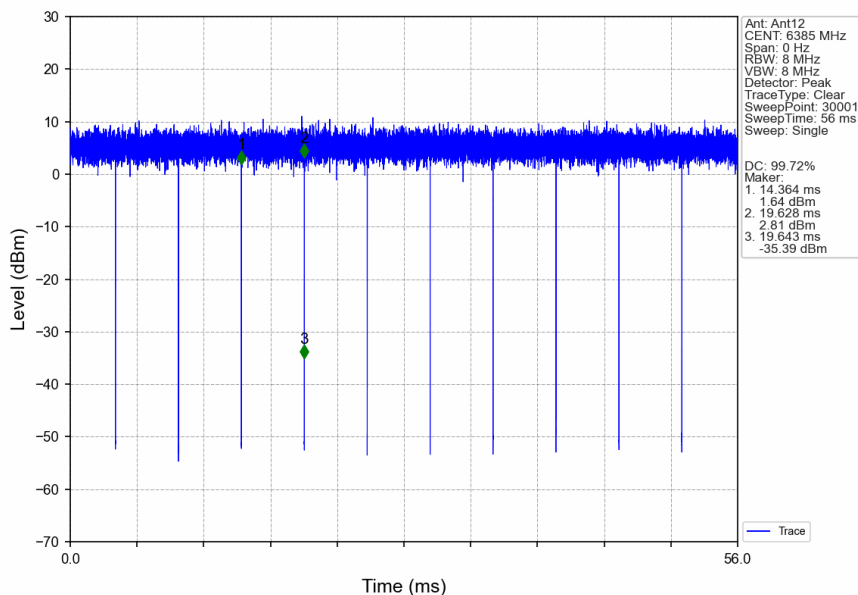
802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant12_NTNV



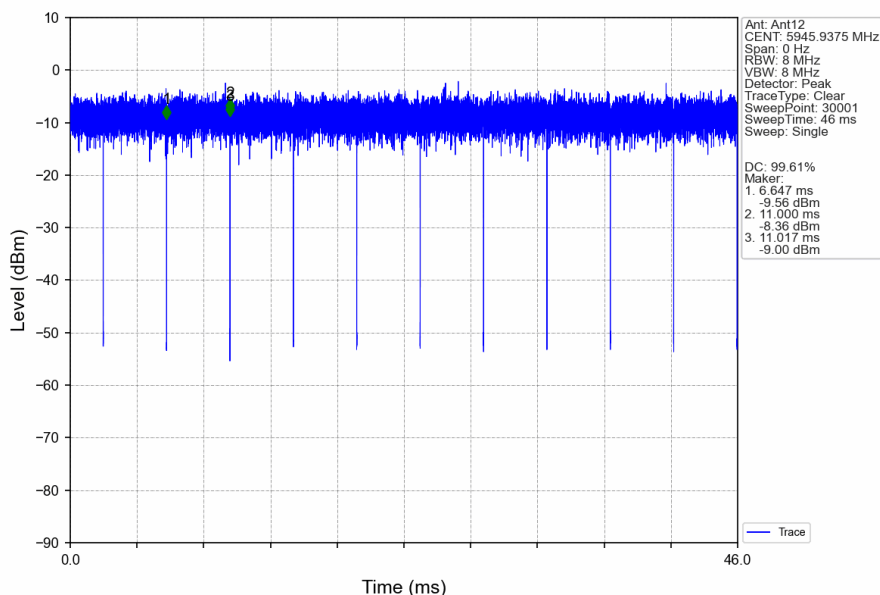
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant12_NTNV



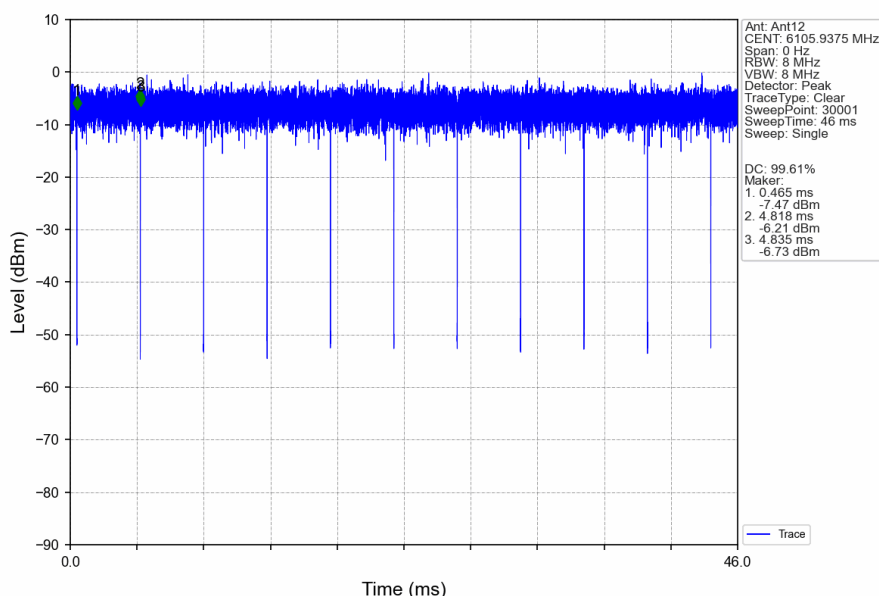
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

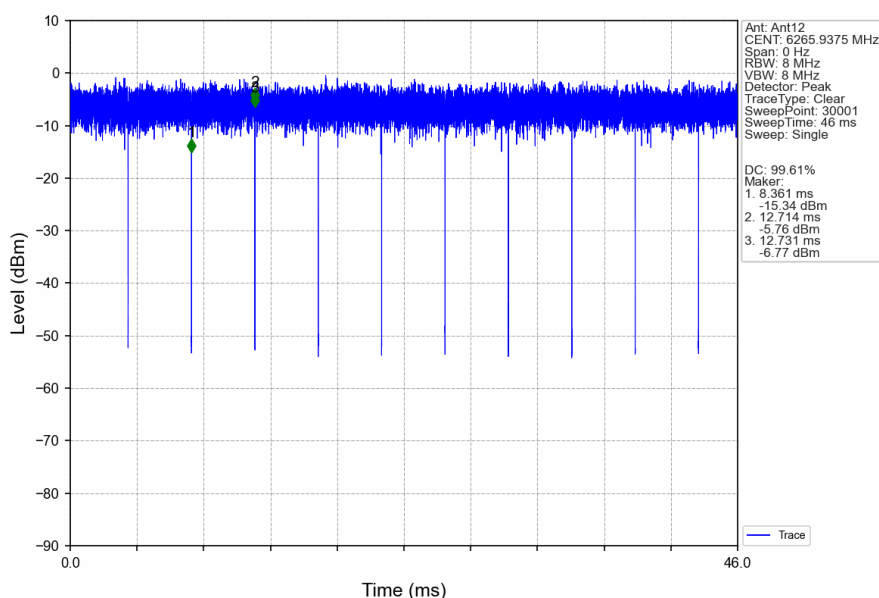
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Testing & Calibration Laboratory)

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.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

802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant12_NTNV

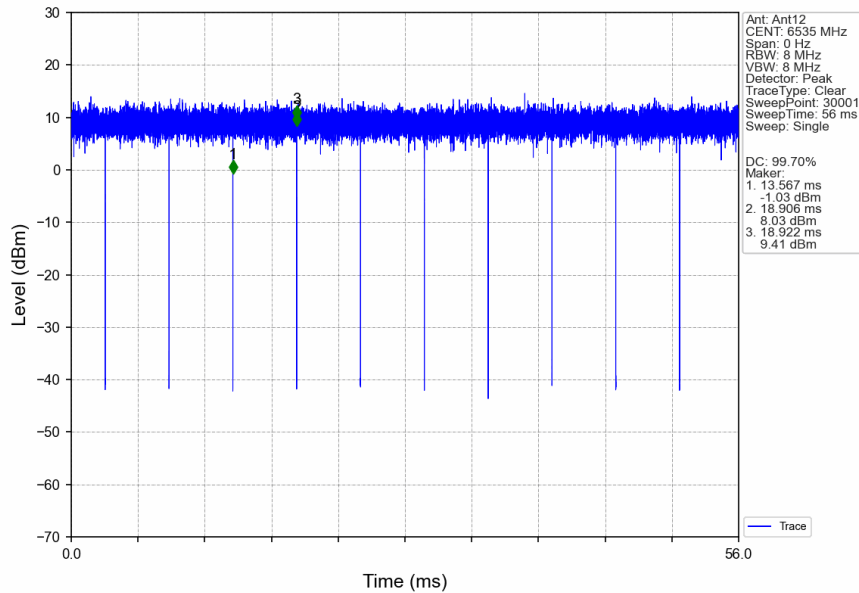


802.11ax(HEW160)_HCH_6345MHz_2xRU996_Left_Ant12_NTNV

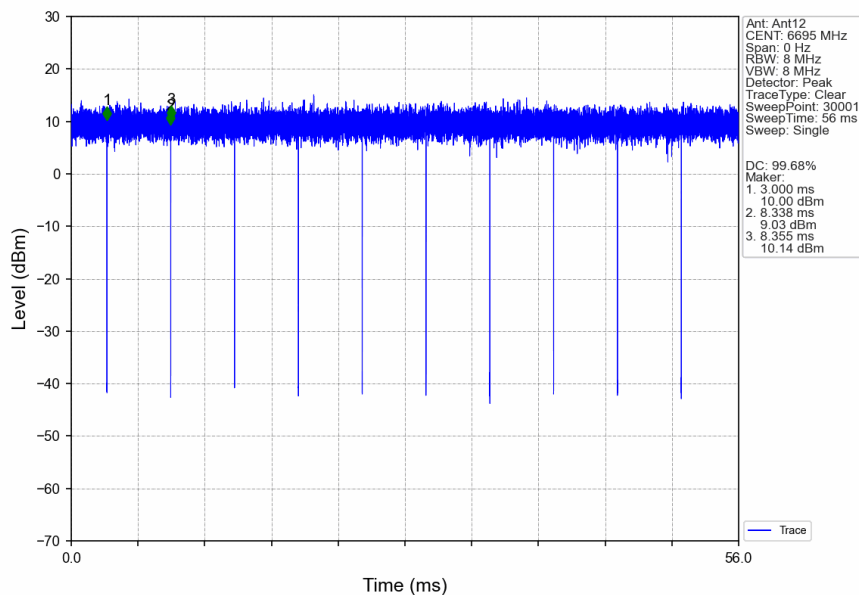


1.2.2 Ant12

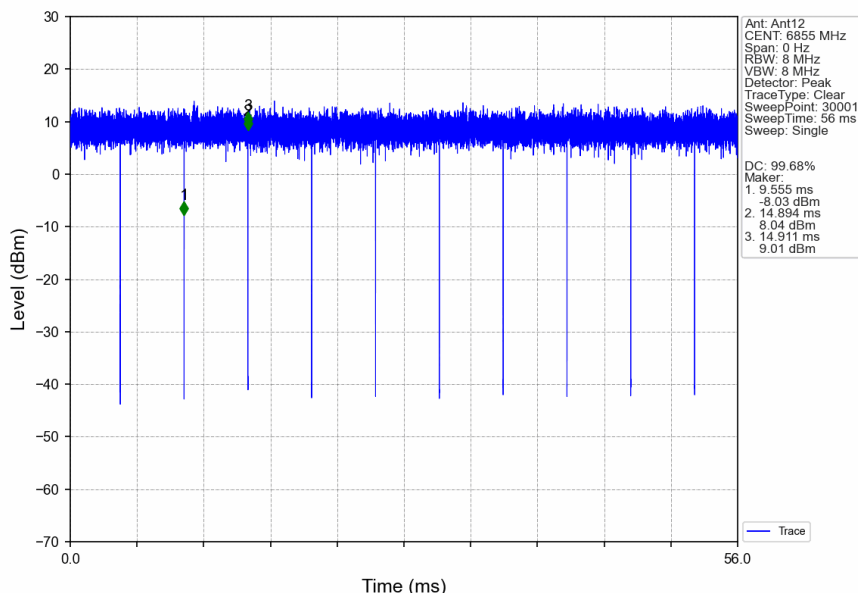
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant12_NTNV



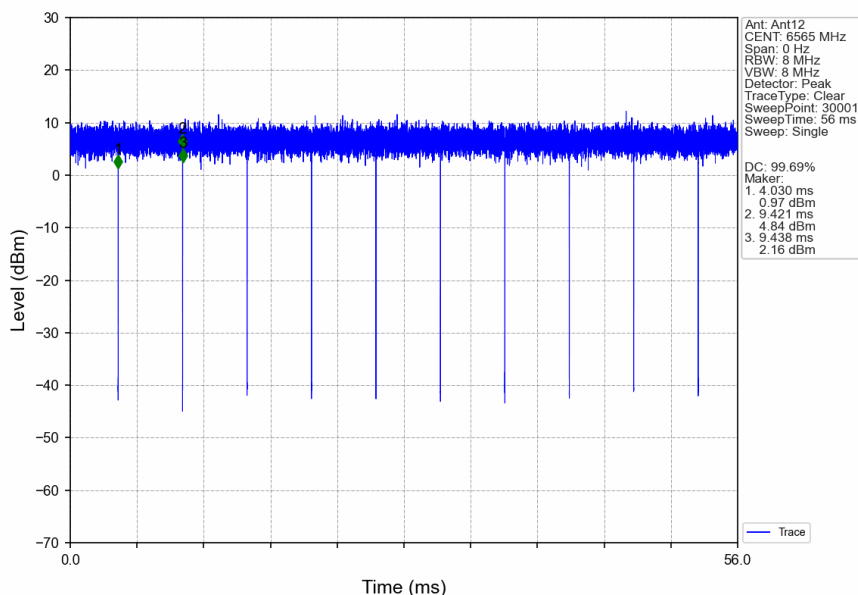
802.11ax(HEW20)_MCH_6695MHz_RU242_Left_Ant12_NTNV



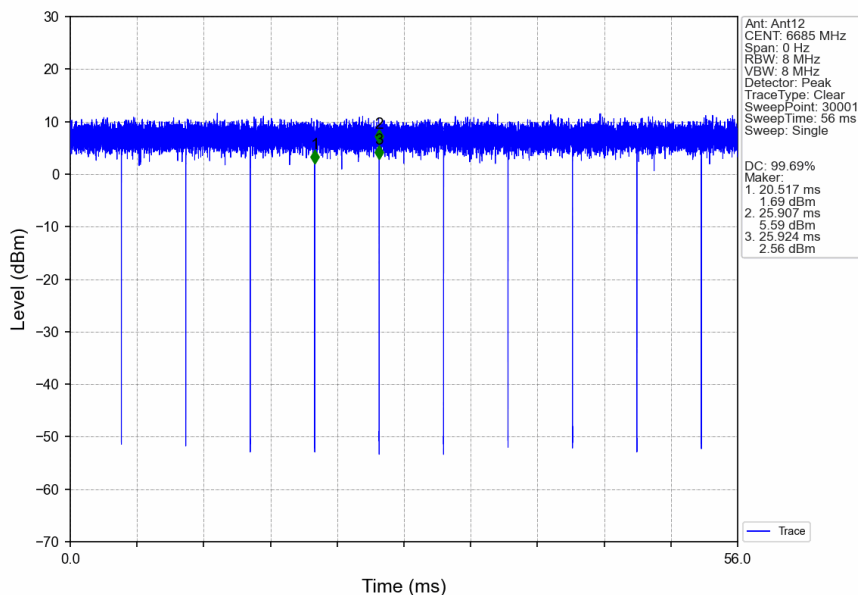
802.11ax(HEW20)_HCH_6855MHz_RU242_Left_Ant12_NTNV



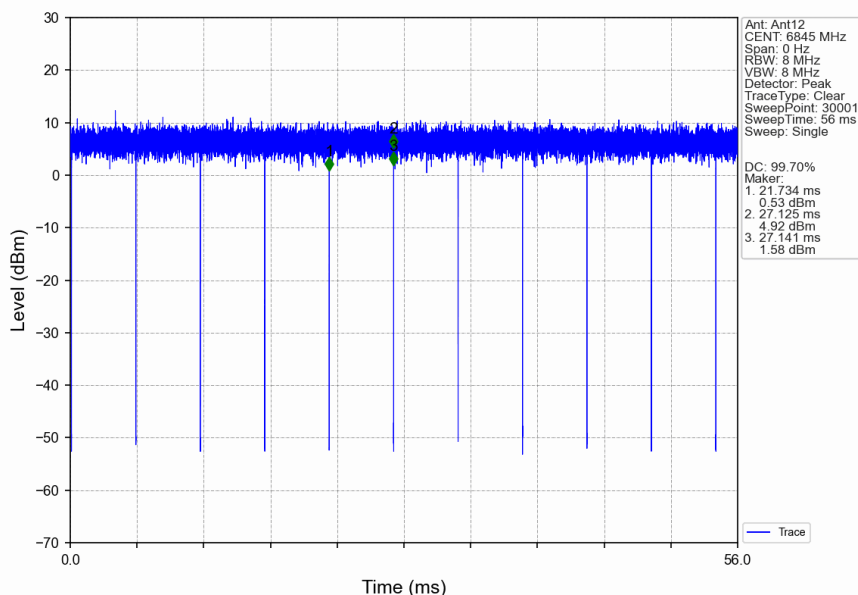
802.11ax(HEW40)_LCH_6565MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_MCH_6685MHz_RU484_Left_Ant12_NTNV



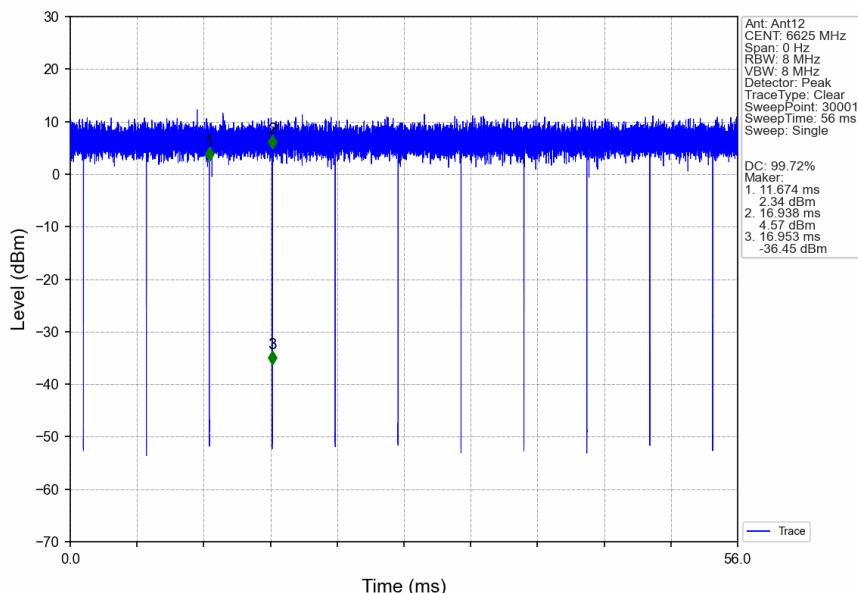
802.11ax(HEW40)_HCH_6845MHz_RU484_Left_Ant12_NTNV



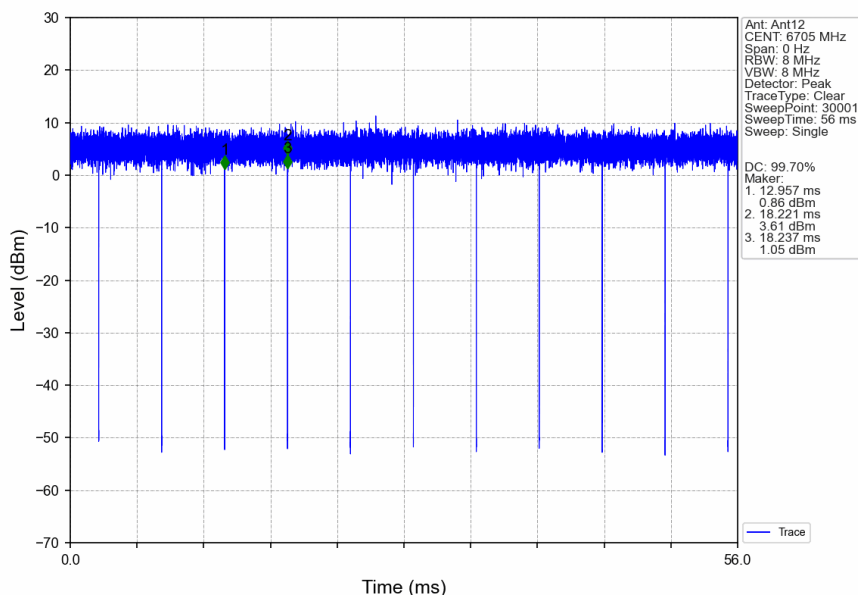
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant12_NTNV



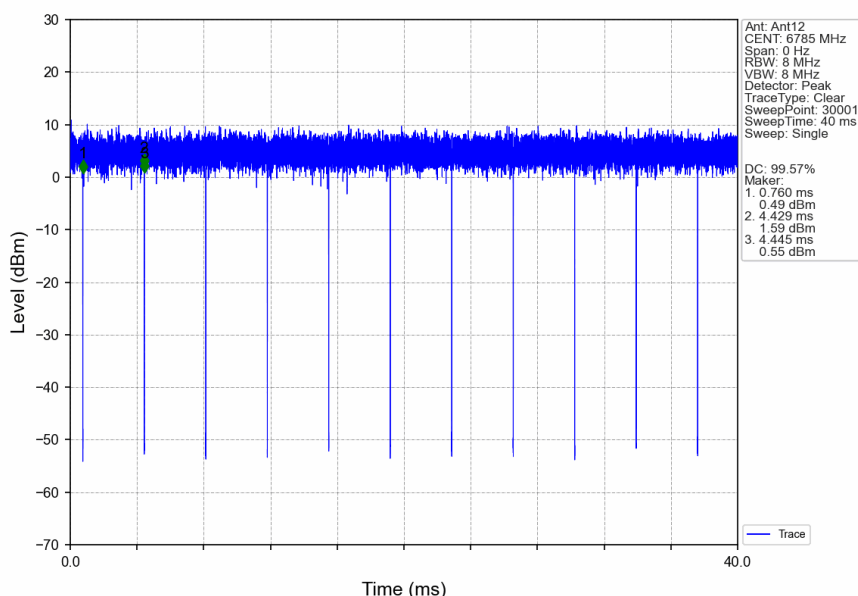
802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant12_NTNV



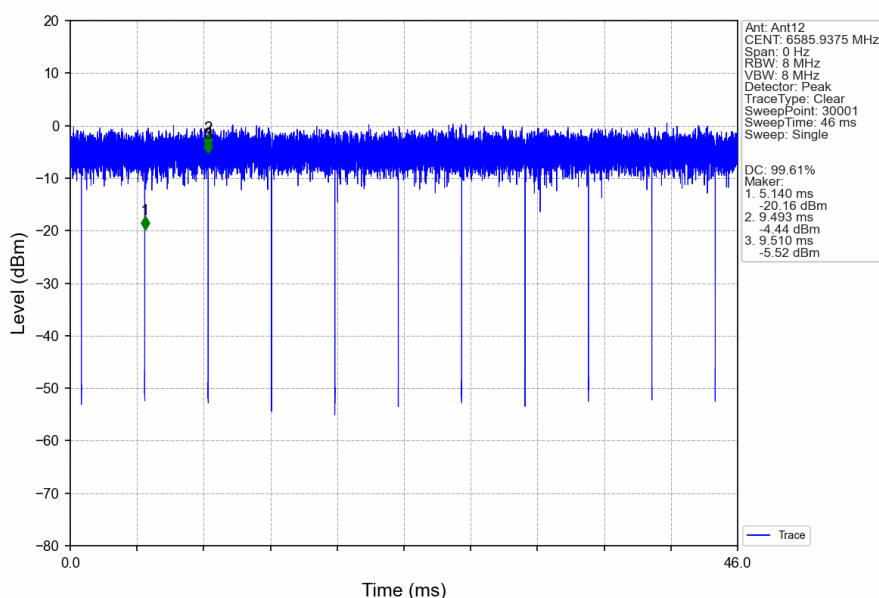
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

802.11ax(HEW80)_HCH_6785MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW160)_MCH_6665MHz_2xRU996_Left_Ant12_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

2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	12	18.966	<=320	Pass
			6175	RU242	Left	12	18.989	<=320	Pass
			6415	RU242	Left	12	18.958	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	12	37.638	<=320	Pass
			6165	RU484	Left	12	37.732	<=320	Pass
			6405	RU484	Left	12	37.726	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	12	76.752	<=320	Pass
			6145	RU996	Left	12	76.928	<=320	Pass
			6385	RU996	Left	12	76.767	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	12	154.859	<=320	Pass
			6185	2xRU996	Left	12	155.391	<=320	Pass
			6345	2xRU996	Left	12	154.936	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	12	20.736	/	Pass
			6175	RU242	Left	12	20.762	/	Pass
			6415	RU242	Left	12	20.579	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	12	40.180	/	Pass
			6165	RU484	Left	12	39.847	/	Pass
			6405	RU484	Left	12	39.707	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	12	80.824	/	Pass
			6145	RU996	Left	12	81.334	/	Pass
			6385	RU996	Left	12	80.680	/	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	12	164.411	/	Pass
			6185	2xRU996	Left	12	163.315	/	Pass
			6345	2xRU996	Left	12	162.656	/	Pass

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700332810

Page: 104 of 477

2.1.3 OBW

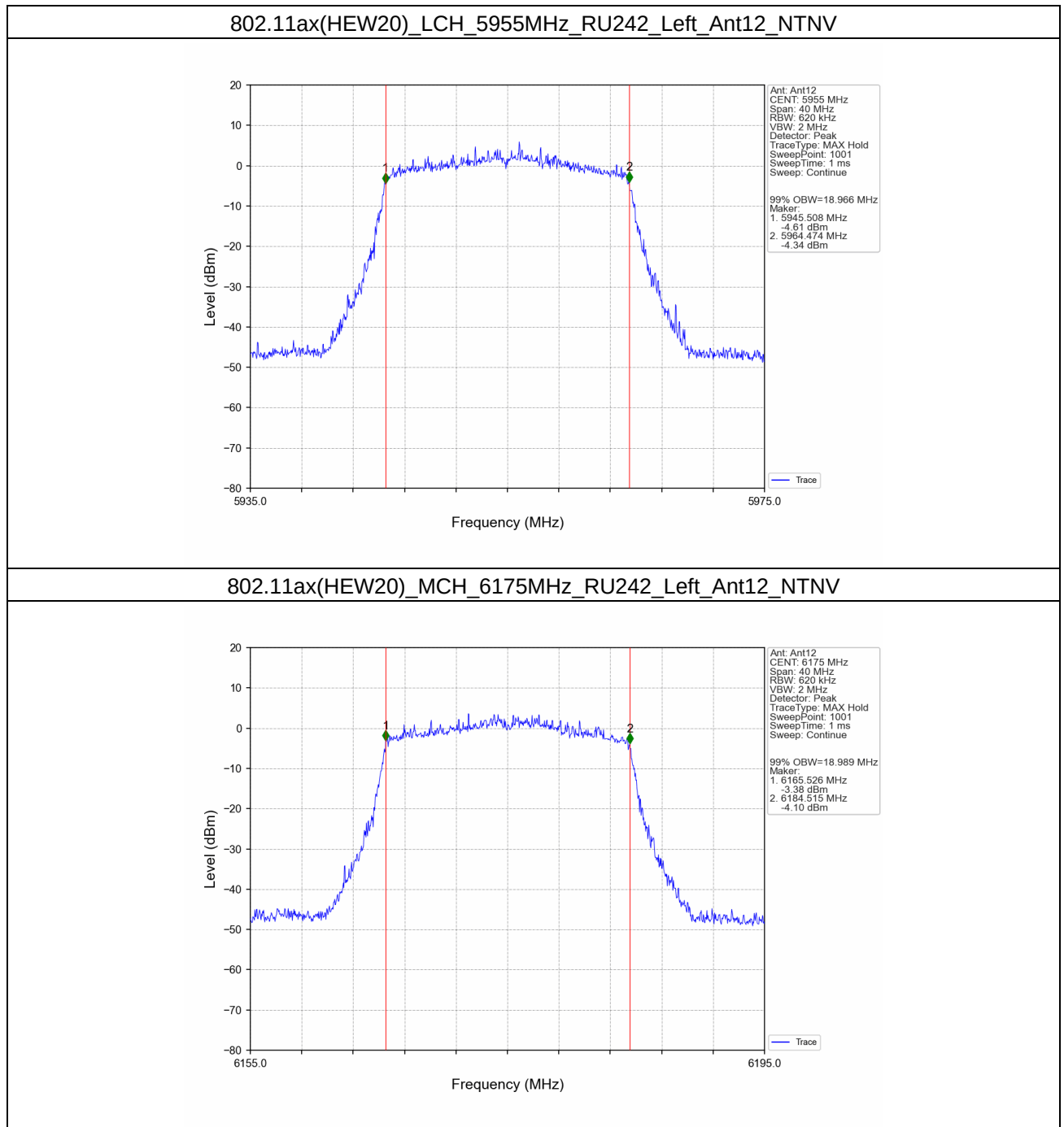
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	12	18.998	<=320	Pass
			6695	RU242	Left	12	19.020	<=320	Pass
			6855	RU242	Left	12	18.984	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	12	37.707	<=320	Pass
			6685	RU484	Left	12	37.678	<=320	Pass
			6845	RU484	Left	12	37.691	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	12	76.957	<=320	Pass
			6705	RU996	Left	12	76.859	<=320	Pass
			6785	RU996	Left	12	76.735	<=320	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	12	155.177	<=320	Pass

2.1.4 26dB BW

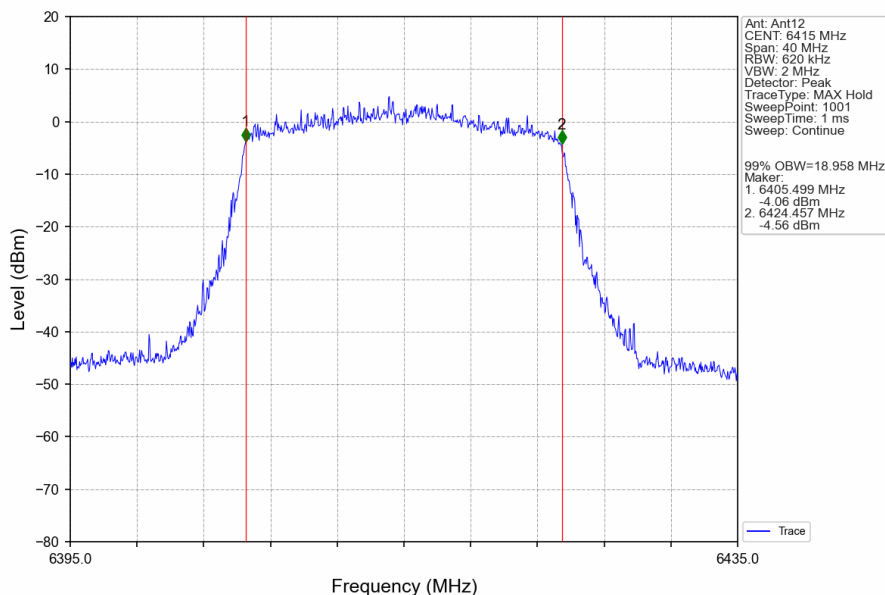
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	12	20.307	/	Pass
			6695	RU242	Left	12	20.556	/	Pass
			6855	RU242	Left	12	20.378	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	12	39.673	/	Pass
			6685	RU484	Left	12	40.215	/	Pass
			6845	RU484	Left	12	39.954	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	12	81.097	/	Pass
			6705	RU996	Left	12	80.885	/	Pass
			6785	RU996	Left	12	80.788	/	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	12	164.764	/	Pass

2.2 Test Graph

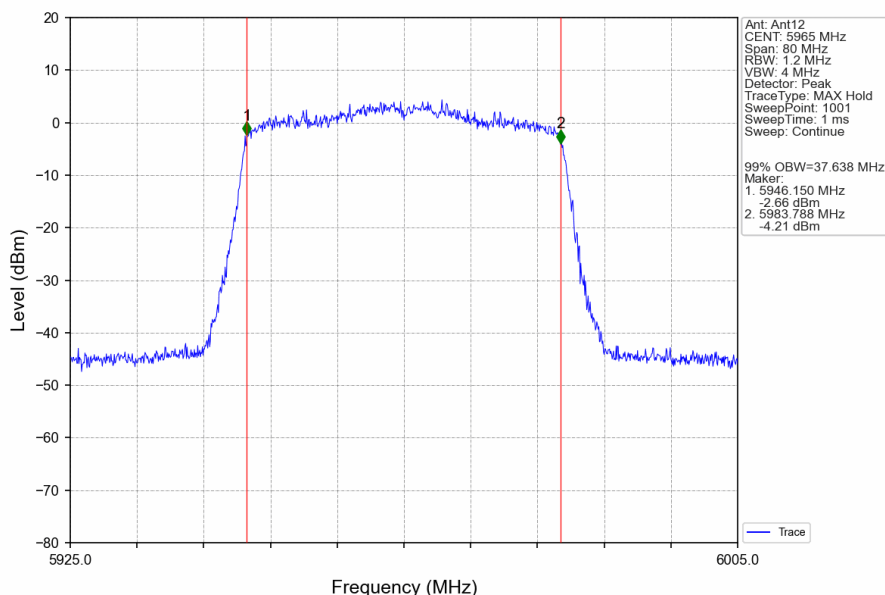
2.2.1 OBW



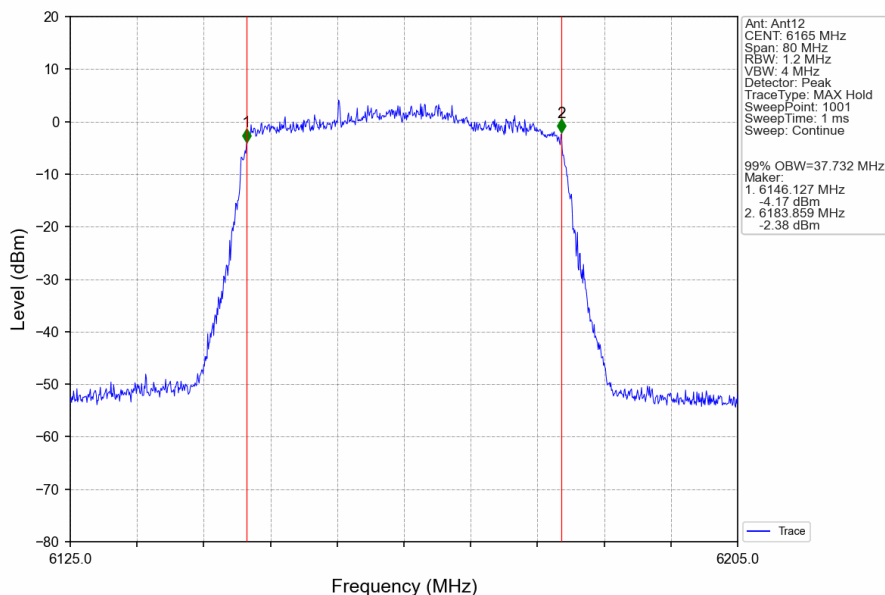
802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant12_NTNV



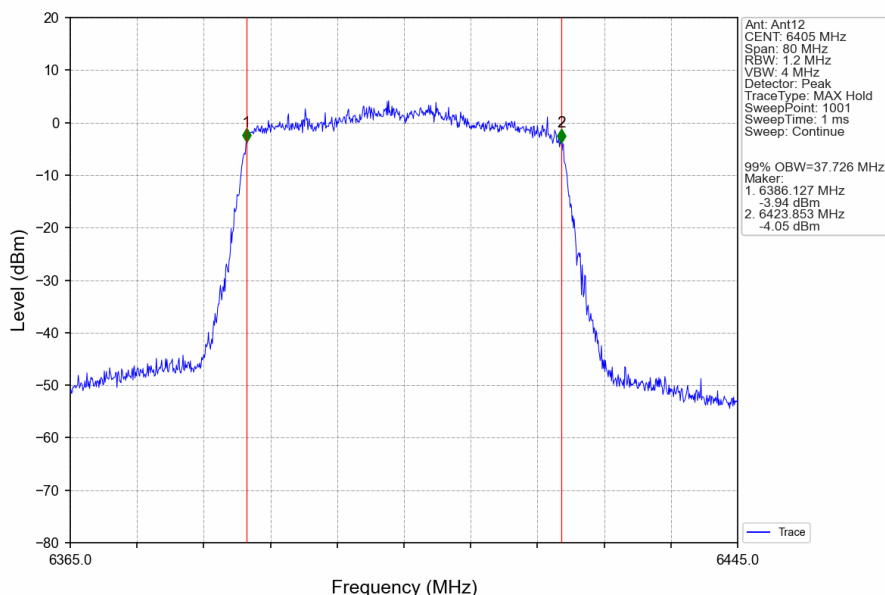
802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant12_NTNV



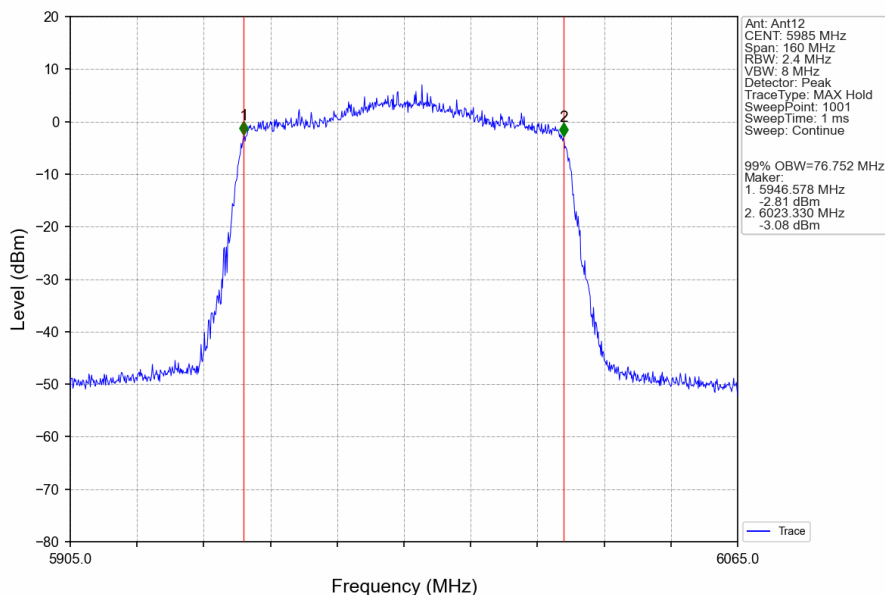
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

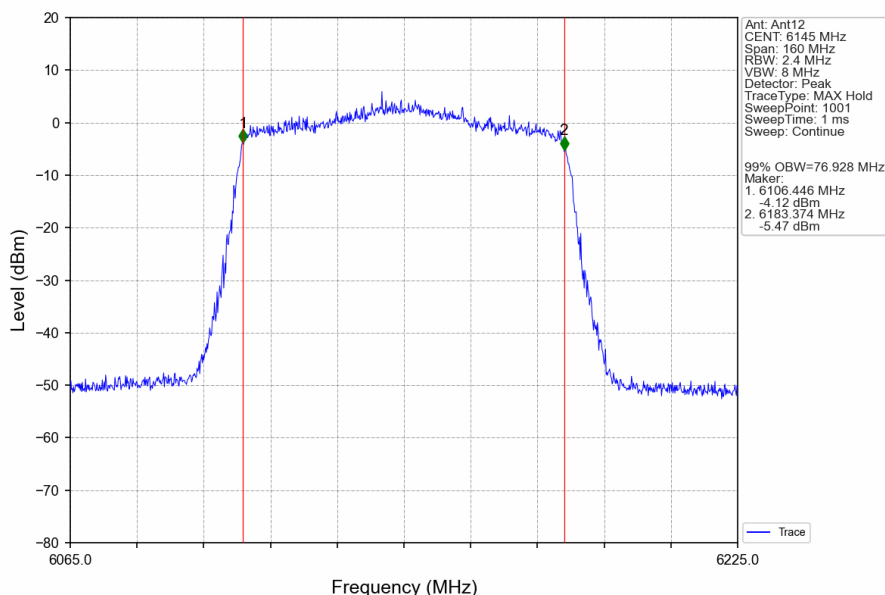
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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.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

802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant12_NTNV



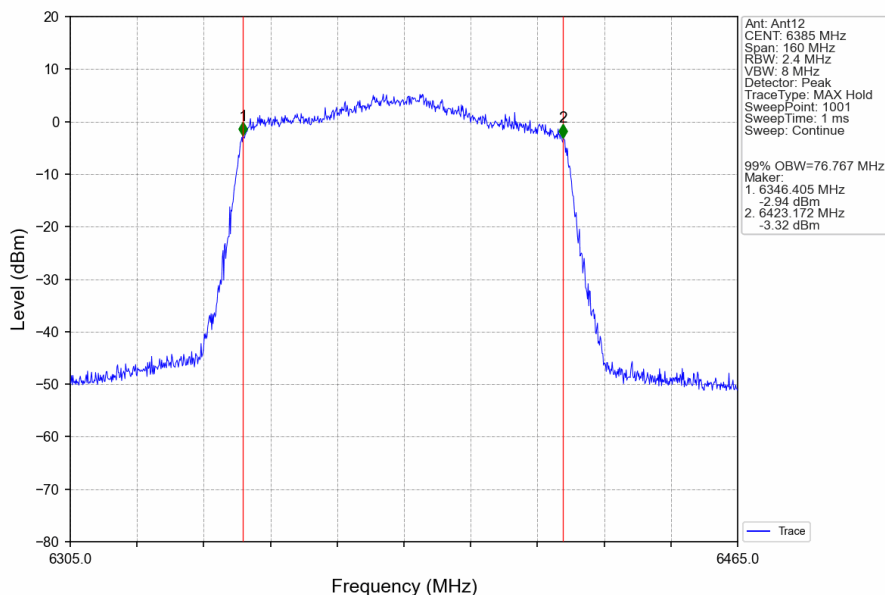
802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant12_NTNV



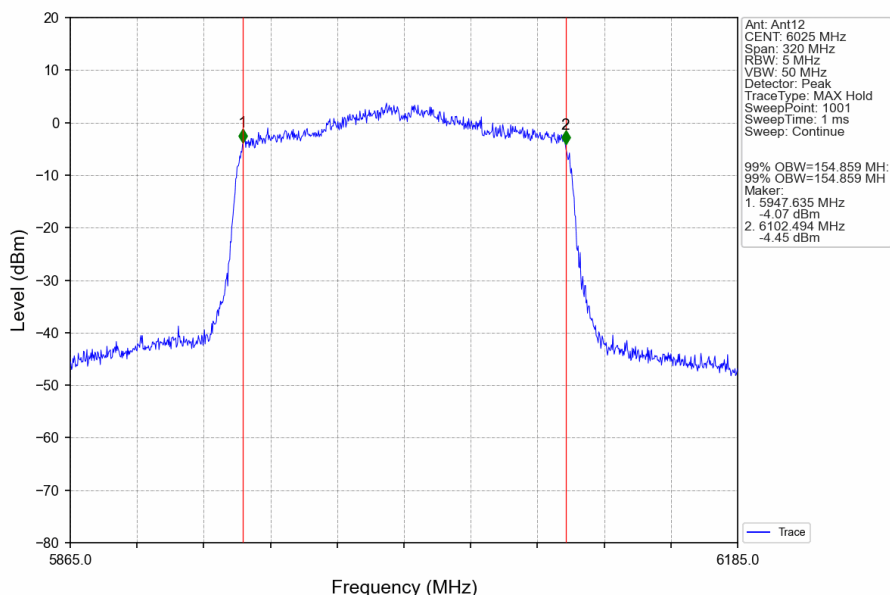
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

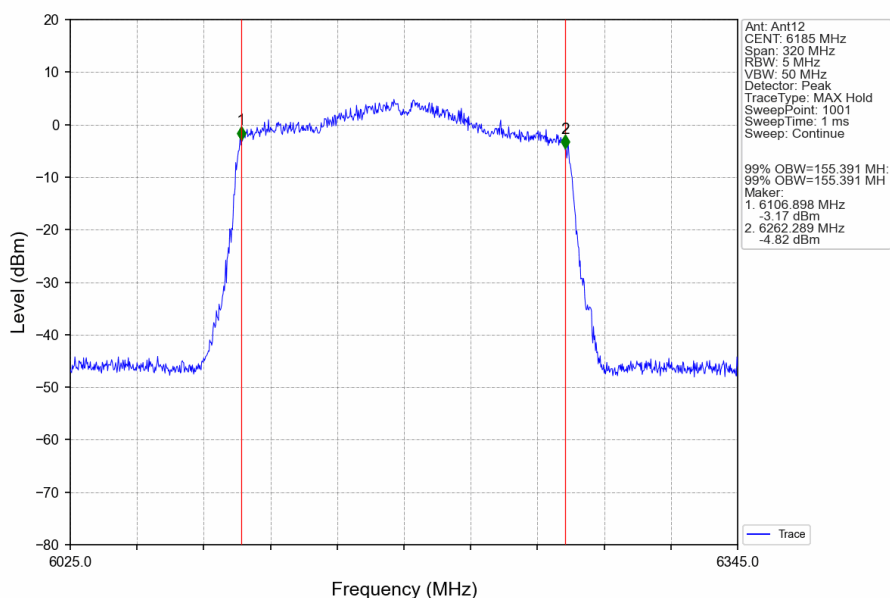
802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant12_NTNV



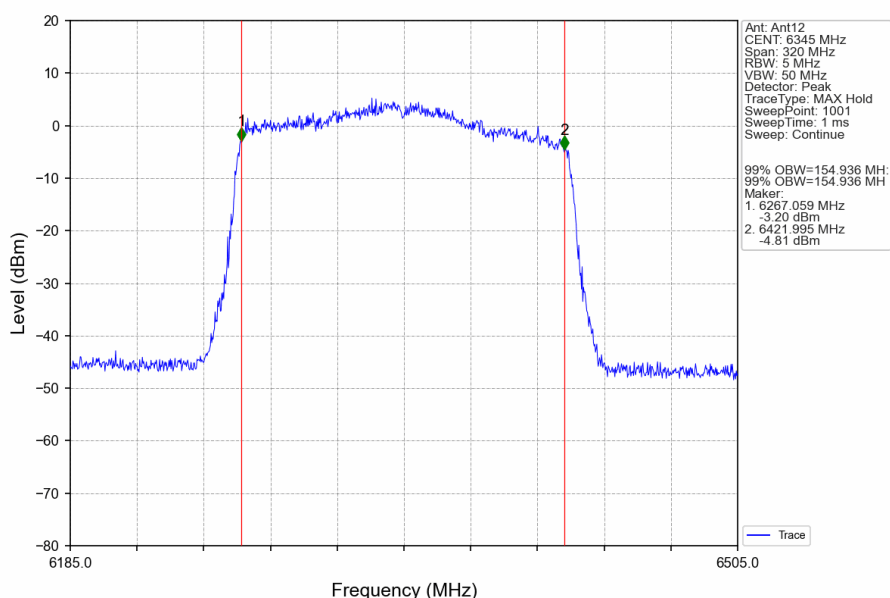
802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant12_NTNV



802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant12_NTNV

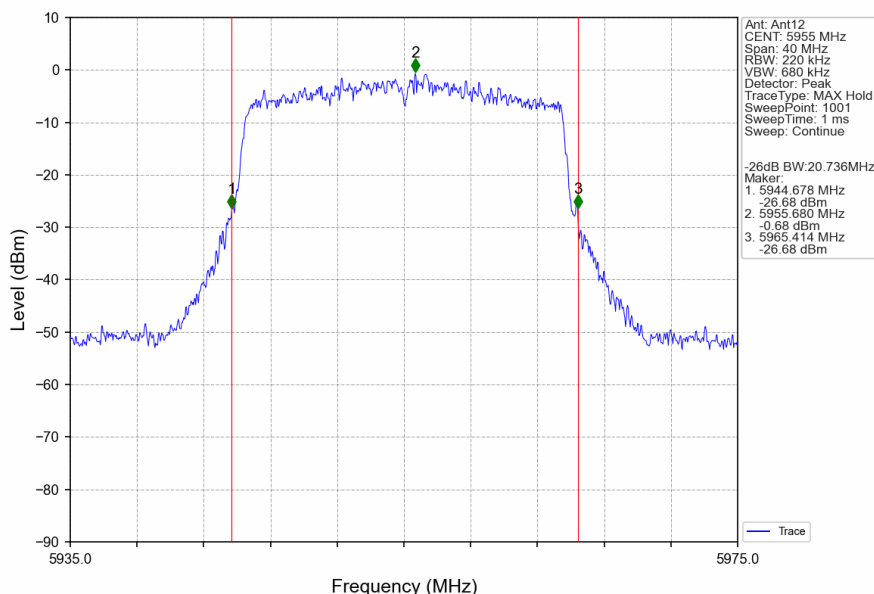


802.11ax(HEW160)_HCH_6345MHz_2xRU996_Left_Ant12_NTNV

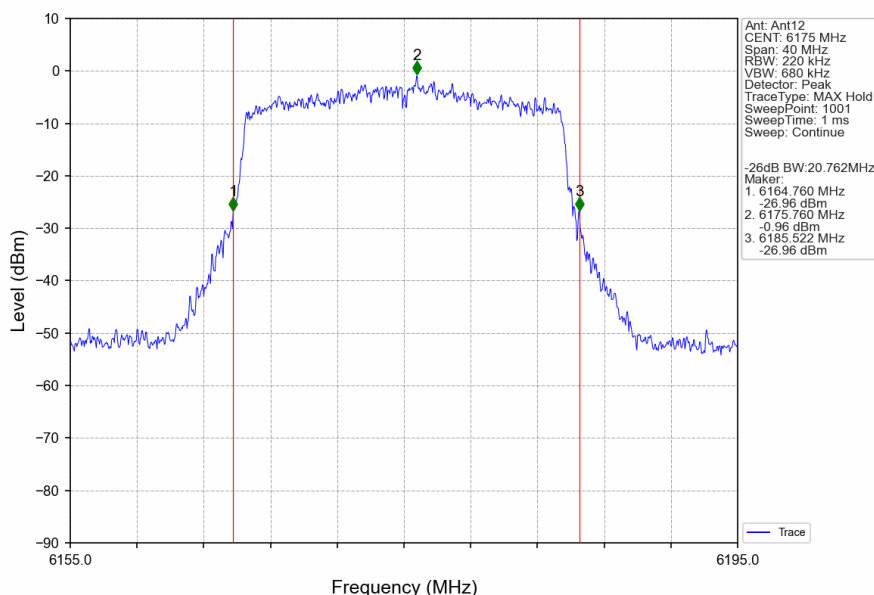


2.2.2 26dB BW

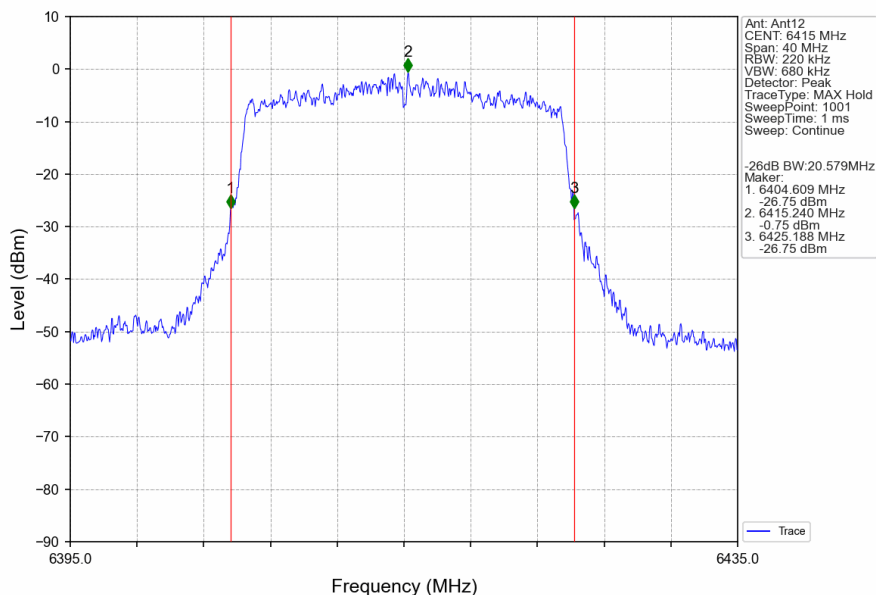
802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant12_NTNV



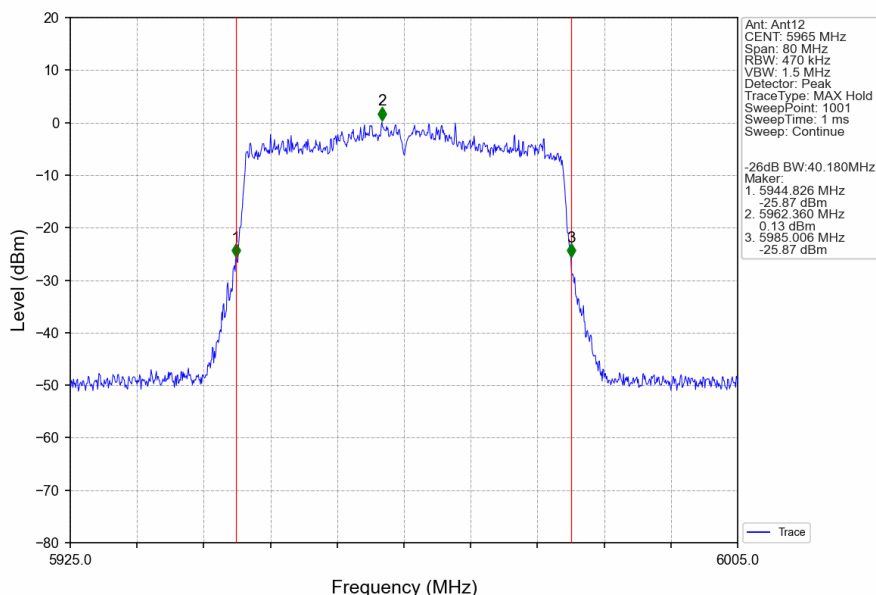
802.11ax(HEW20)_MCH_6175MHz_RU242_Left_Ant12_NTNV



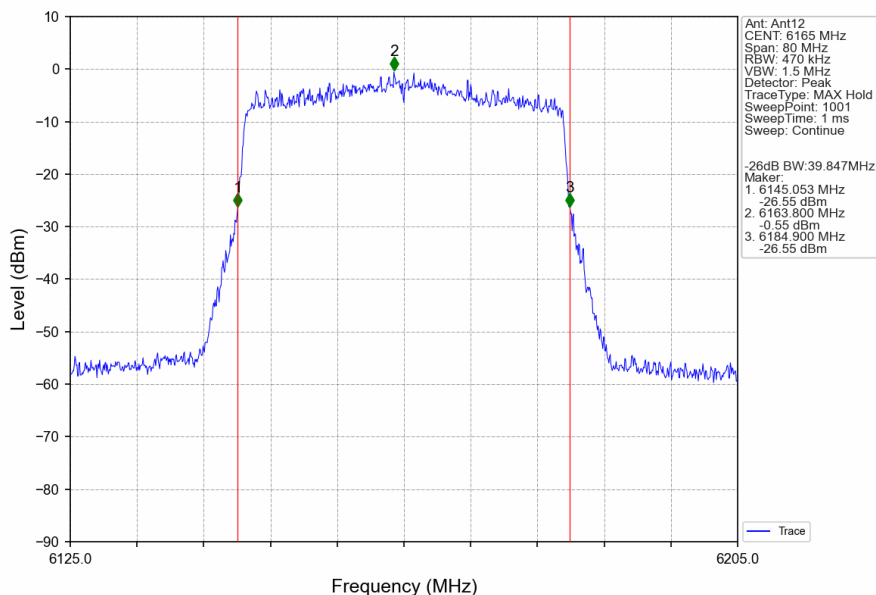
802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant12_NTNV



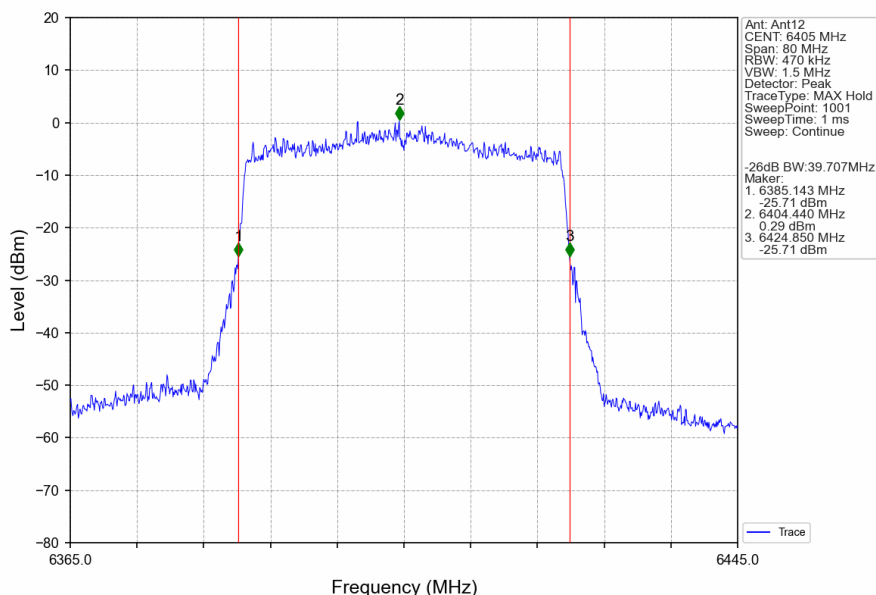
802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant12_NTNV



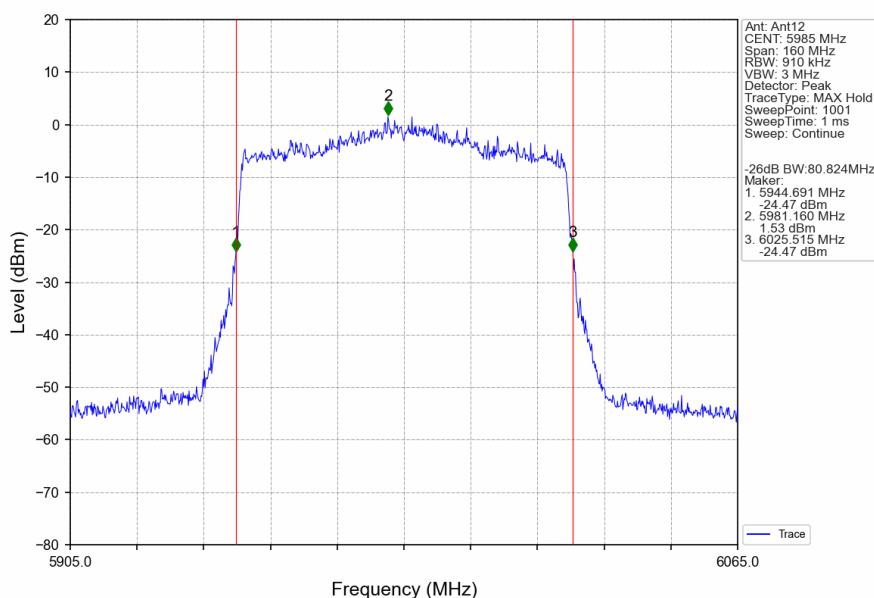
802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant12_NTNV



802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant12_NTNV



802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant12_NTNV

