



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 1 of 144

TEST REPORT

Application No.: SUCR2501000018TL
Applicant: UCLOUDLINK (SINGAPORE) PTE.LTD
Address of Applicant: 80 ROBINSON ROAD #02-00 SINGAPORE(068898)
Manufacturer: UCLOUDLINK (SINGAPORE) PTE.LTD
Address of Manufacturer: 80 ROBINSON ROAD #02-00 SINGAPORE(068898)
EUT Description: 4G Wireless Data Terminal
Model No.: GLMU24A01
Trade Mark: GlocalMe
FCC ID: 2BB6E-GLMU24A01
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: January 7, 2025
Date of Test: January 18, 2025 to February 18, 2025
Date of Issue: March 3, 2025

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 2 of 144

Version

Revision Record			
Version	Description	Date	Remark
00	Original	March 3, 2025	/

Authorized for issue by:				
Tested By				
		Nature Shen / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 3 of 144

Contents

Version	2
1 Test Summary	4
2 General Information	6
2.1 Details of Client	6
2.2 Test Location	6
2.3 Test Facility	6
2.4 General Description of EUT	7
2.5 Test Environment and Mode	9
2.6 Description of Support Units	9
2.7 Worst-case configuration and mode	9
3 Equipment List	10
4 Measurement Uncertainty (95% confidence levels, k=2)	12
5 Test results and Measurement Data	13
5.1 Antenna Requirement	13
5.2 AC Power Line Conducted Emissions	14
5.3 Duty Cycle	18
5.4 Conducted Output Power	19
5.5 26dB Emission Bandwidth	20
5.6 6dB Emission Bandwidth	21
5.7 99% Occupied Bandwidth	22
5.8 Power Spectral Density	23
5.9 Radiated Spurious Emissions	24
5.10 Restricted bands around fundamental frequency	27
6 Photographs - Setup Photos	29
7 Appendix	30

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 4 of 144

1 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 3.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 3.5	For Report Purpose
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 3.6	PASS
99% Occupied Bandwidth	Band I Band III	KDB 789033 D02§ D	No limit.	Clause 3.7	For Report Purpose
Duty Cycle	Band I Band III	--	No limit.	Clause 3.3	For Report Purpose
Maximum Conducted Output Power	Band I Band III	15.407(a)(ii) 15.407(a)(3)	< 1W < 1W	Clause 3.4	PASS
Maximum Power Spectral Density	Band I Band III	15.407(a)(ii) 15.407(a)(3)	< 17dBm/MHz <30dBm/500KHz	Clause 3.8	PASS
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 3.9	PASS
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
Restricted bands around fundamental frequency	Band I Band III	15.407(b) 15.205/15.209	---	Clause 3.10	PASS
AC Power Line Conducted Emissions	Band I Band III	15.207	---	Clause 3.2	PASS
Frequency Stability	Band I Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions	N/A	N/A



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 5 of 144

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
			of normal operation as specified in the users manual		
Note 1: Band I: 5150-5250MHz Band III: 5725-5850MHz					



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 6 of 144

2 General Information

2.1 Details of Client

Applicant:	U-CLOUDLINK (SINGAPORE) PTE.LTD
Address of Applicant:	80 ROBINSON ROAD #02-00 SINGAPORE(068898)
Manufacturer:	U-CLOUDLINK (SINGAPORE) PTE.LTD
Address of Manufacturer:	80 ROBINSON ROAD #02-00 SINGAPORE(068898)

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

2.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 7 of 144

2.4 General Description of EUT

EUT Description:	4G Wireless Data Terminal	
Model No.:	GLMU24A01	
Trade Mark:	GlocalMe	
Hardware Version:	U40_MB_VB	
Software Version:	U40_TSV1.0.002.003.250115	
IMEI:	RF Conducted	357878440000310
	RSE & AC power line	357878440000295
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	Internal Antenna	
Antenna Gain:	5150MHz to 5250MHz: 3.22dBi; 5725MHz to 5850MHz: 2.96dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac
TPC Function:	☐ Support, ☒ Not Support	
RF Cable*:	2dB	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.		
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.		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 8 of 144

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 9 of 144

2.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44~46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

The EUT has been tested as an independent unit.

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 10 of 144

3 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/13/2025	2/12/2026
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	1/21/2025	1/20/2026
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/19/2024	11/18/2025



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 11 of 144

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/13/2025	2/12/2026
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	5/6/2024	5/5/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	5/6/2024	5/5/2025
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 12 of 144

4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.88\text{dB}$ (30M -1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)

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 (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 13 of 144

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: 3.22dBi; 5725MHz to 5850MHz: 2.96dBi; <i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>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.</i>	



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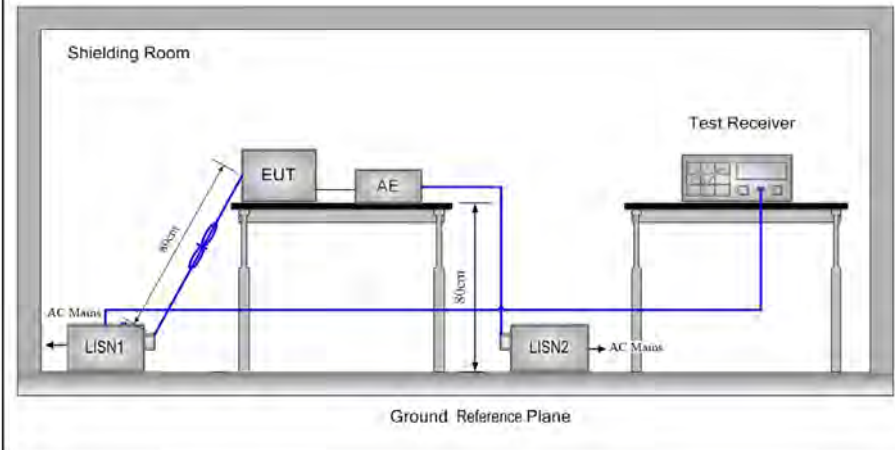
Report No.: SUCR250100001803

Rev.: 01

Page: 14 of 144

5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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.		
Test Procedure:	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 $50\Omega/50\mu\text{H} + 5\Omega$ 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: 2013 on conducted measurement.		

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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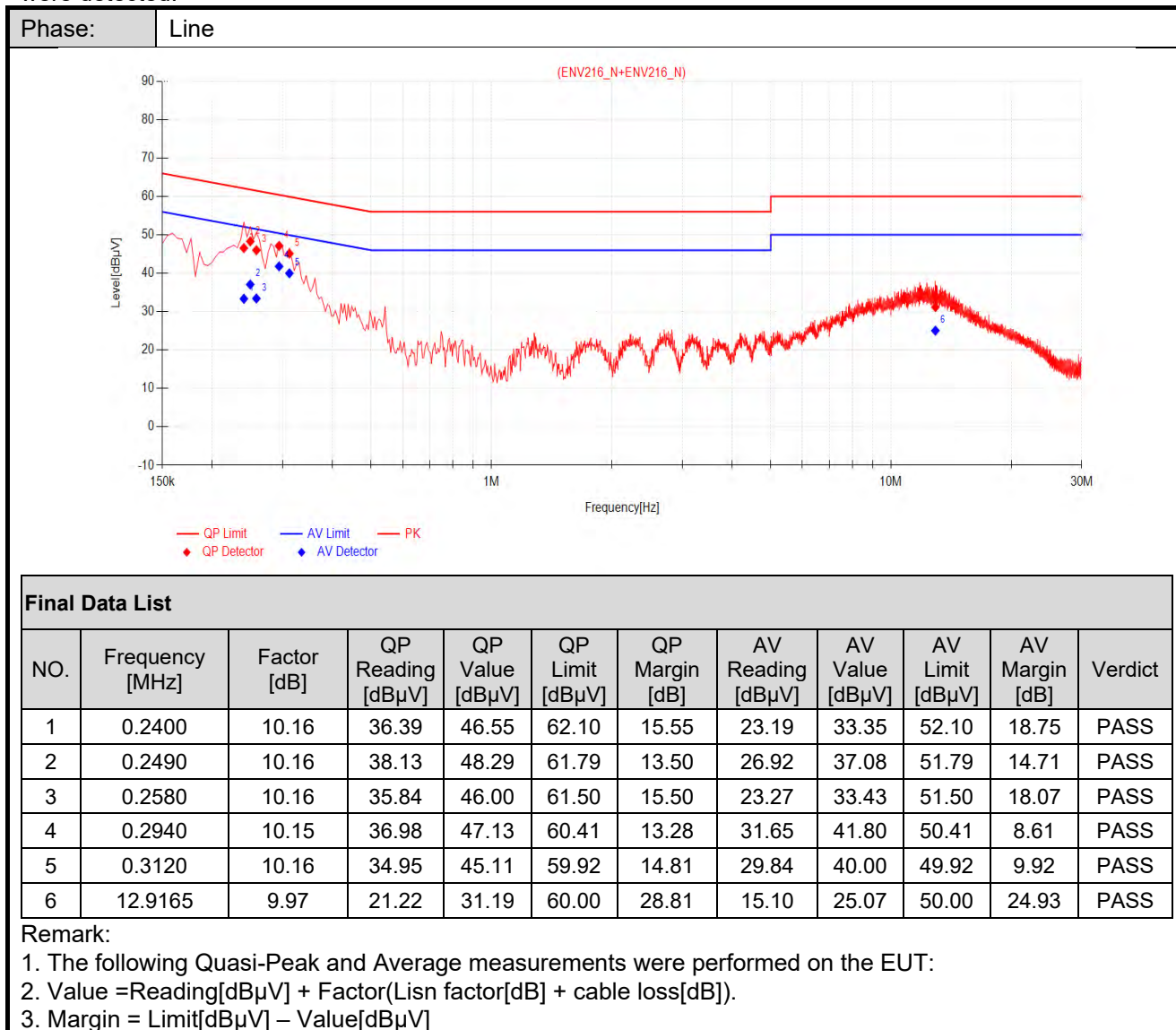
Report No.: SUCR250100001803

Rev.: 01

Page: 16 of 144

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



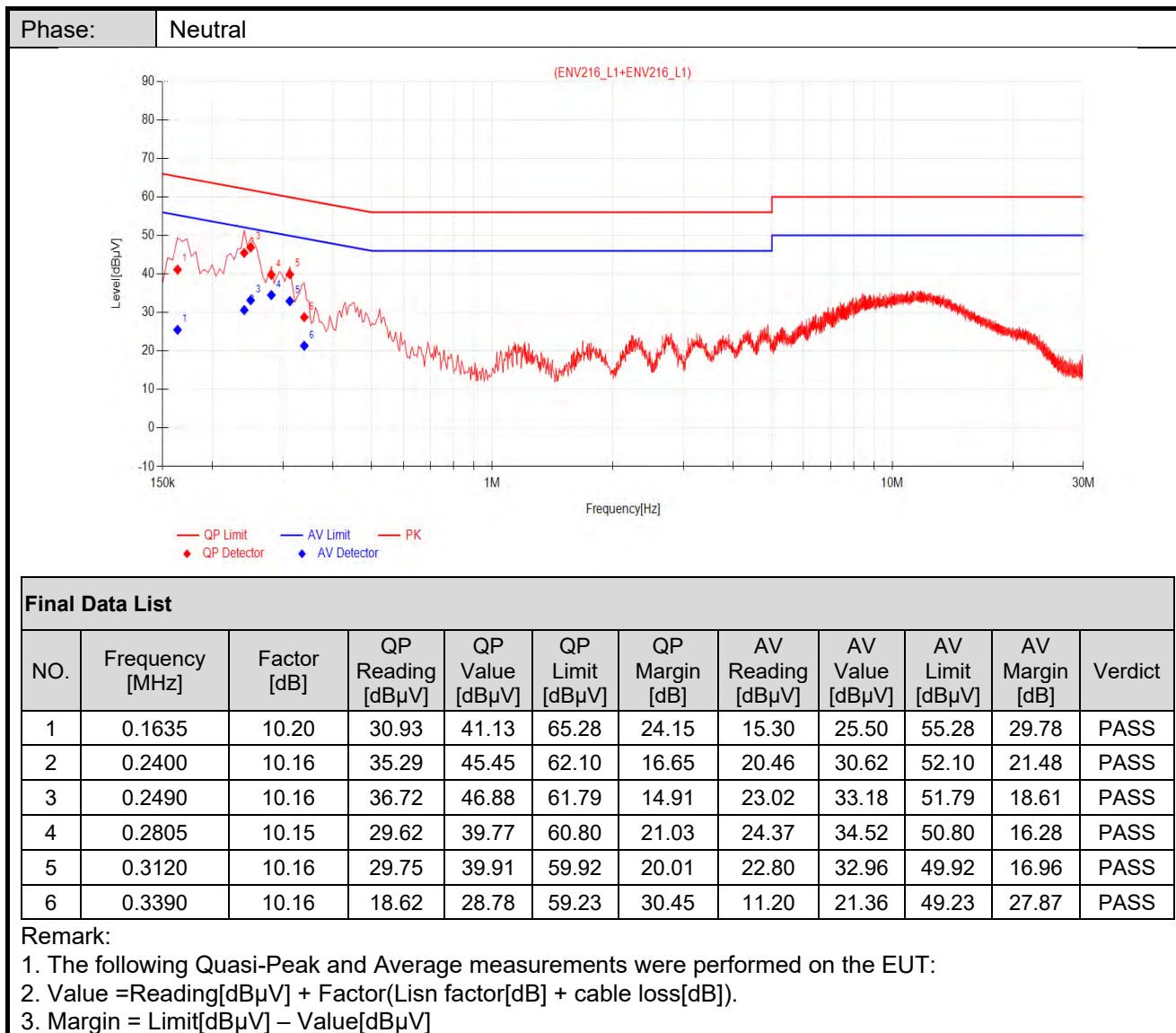


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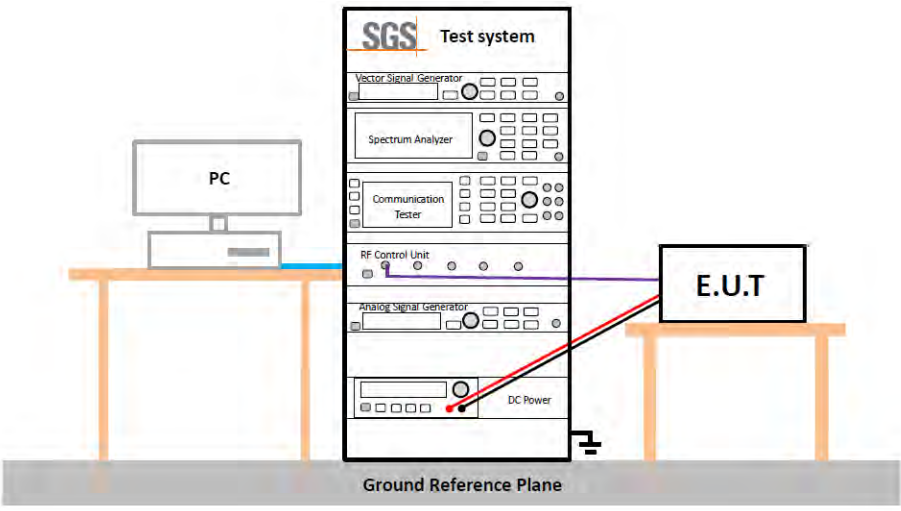
Report No.: SUCR250100001803

Rev.: 01

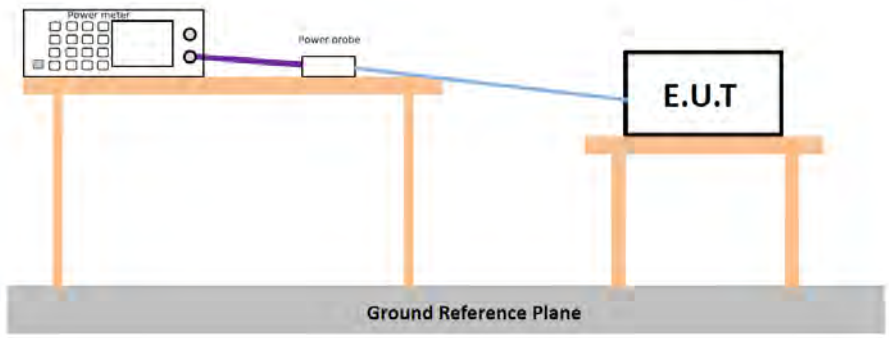
Page: 17 of 144



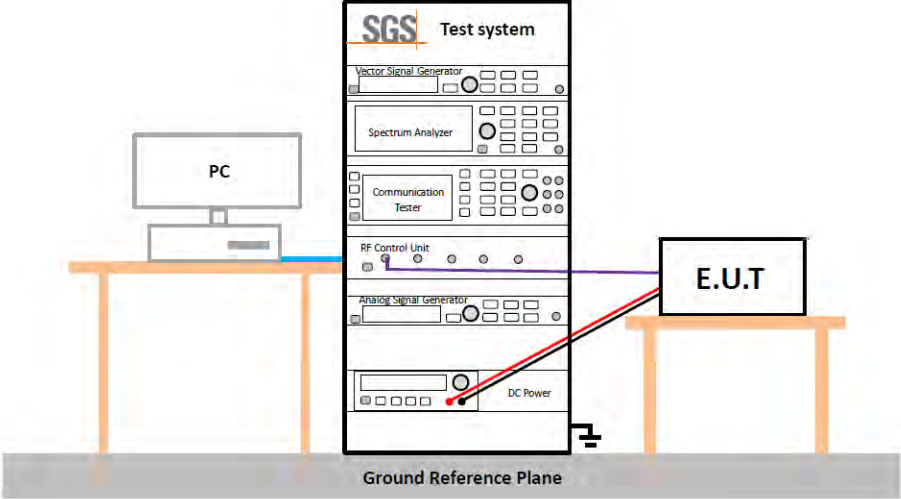
5.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2013 Section 12.2
Test Method:	ANSI C63.10 :2013 Section 12.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: Appendix	

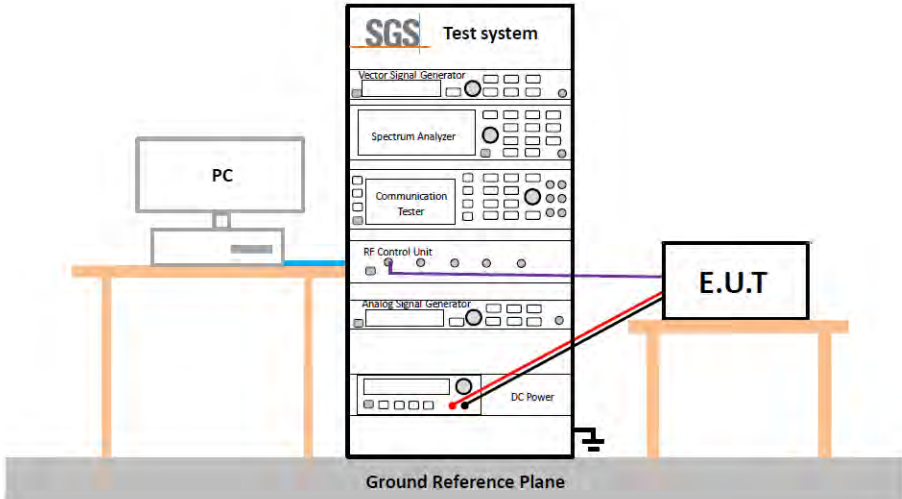
5.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2	
Test Setup:	 * Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 1W(30dBm)
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		

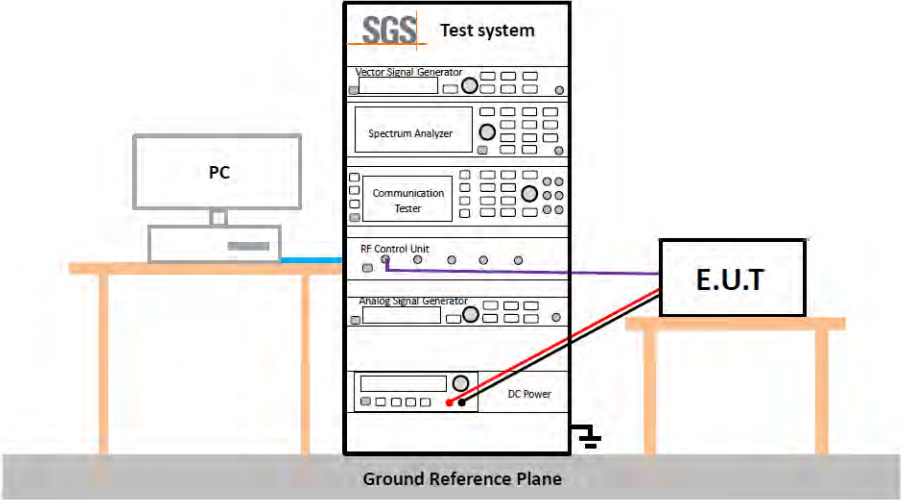
5.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

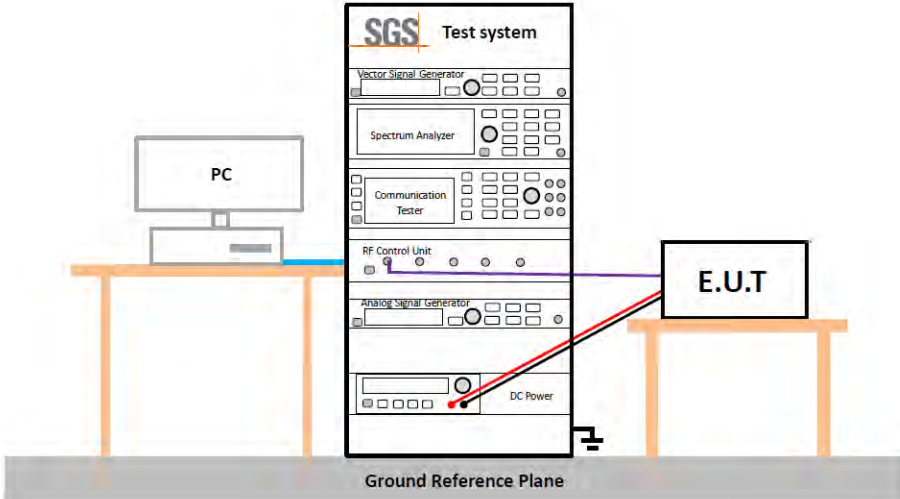
5.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)		
Test Method:	ANSI C63.10: 2013 Section 12.4.1		
Test Setup:			
Test Instruments:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	Frequency Band	Limit	
	5725-5850MHz	At least 500kHz	
Test Results:	Pass		
The detailed test data see: Appendix			

5.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

5.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)		
Test Method:	ANSI C63.10: 2013 Section 12.5 KDB 789033 D02 v02r01, Section F.		
Test Setup:			
Instruments Used:	Refer to section 6 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7 for details.		
Limit:	Frequency Band	Limit	
	5150-5250MHz	The power spectral density less than 17dBm/1MHz	
	5725-5850MHz	The power spectral density less than <30dBm/500KHz	
Test Results:	Pass		
The detailed test data see: Appendix			

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

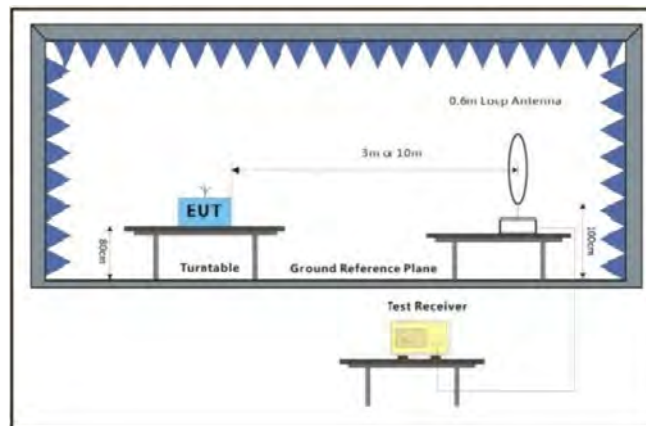


Figure 1. 9kHz to 30MHz

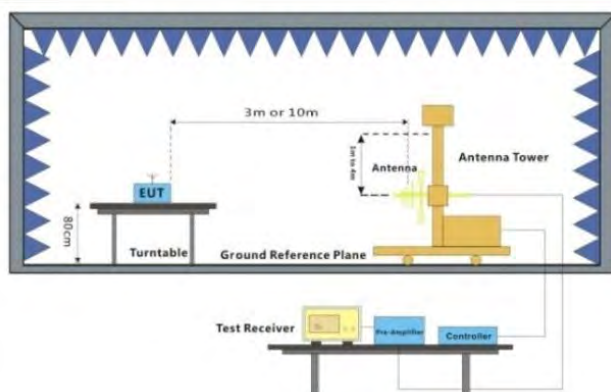


Figure 1. 30MHz to 1GHz

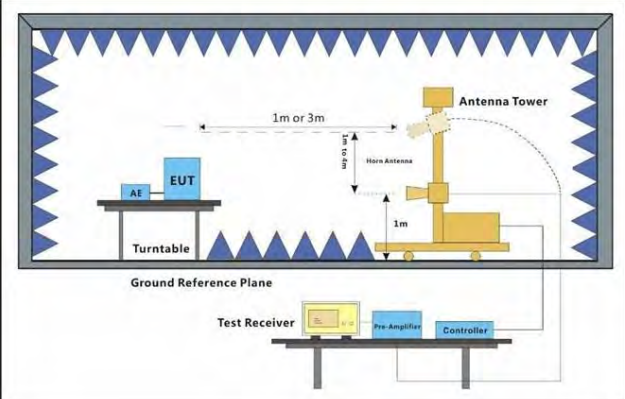


Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, 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 test, the EUT was placed on the top of a rotating table 1.5 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.
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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.

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 25 of 144

	(Distance from antenna to EUT is 1m for measurements >18GHz). 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 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. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is



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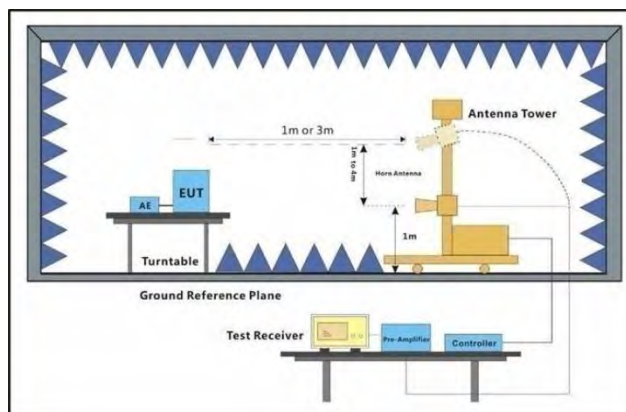
Report No.: SUCR250100001803
Rev.: 01
Page: 26 of 144

	recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 28 of 144

Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 29 of 144

6 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 30 of 144

7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.066	2.101	98.33	0.07	0.00
802.11n (HT20)	SISO	5180	1.925	1.961	98.16	0.08	0.03
802.11n (HT40)	SISO	5190	0.949	0.984	96.44	0.16	0.03
802.11ac (VHT20)	SISO	5180	1.934	1.969	98.22	0.08	0.03
802.11ac (VHT40)	SISO	5190	0.952	0.988	96.36	0.16	0.03
802.11ac (VHT80)	SISO	5210	0.464	0.500	92.80	0.32	0.06



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 31 of 144

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.127	/	Pass
		5200	1	17.127	/	Pass
		5240	1	17.162	/	Pass
		5745	1	17.154	/	Pass
		5785	1	17.128	/	Pass
		5825	1	17.180	/	Pass
802.11n (HT20)	SISO	5180	1	18.313	/	Pass
		5200	1	18.322	/	Pass
		5240	1	18.489	/	Pass
		5745	1	18.357	/	Pass
		5785	1	18.374	/	Pass
		5825	1	18.309	/	Pass
802.11n (HT40)	SISO	5190	1	36.624	/	Pass
		5230	1	36.713	/	Pass
		5755	1	36.797	/	Pass
		5795	1	36.704	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.352	/	Pass
		5200	1	18.348	/	Pass
		5240	1	18.386	/	Pass
		5745	1	18.366	/	Pass
		5785	1	18.350	/	Pass
		5825	1	18.287	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.584	/	Pass
		5230	1	36.589	/	Pass
		5755	1	36.621	/	Pass
		5795	1	36.511	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.917	/	Pass
		5775	1	76.151	/	Pass



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 32 of 144

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.349	≥ 0.5	Pass
		5785	1	15.366	≥ 0.5	Pass
		5825	1	15.168	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.989	≥ 0.5	Pass
		5785	1	16.222	≥ 0.5	Pass
		5825	1	15.993	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.961	≥ 0.5	Pass
		5795	1	35.195	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	16.003	≥ 0.5	Pass
		5785	1	15.168	≥ 0.5	Pass
		5825	1	15.968	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.784	≥ 0.5	Pass
		5795	1	35.215	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.399	≥ 0.5	Pass

2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.647	/	Pass
		5200	1	21.554	/	Pass
		5240	1	21.322	/	Pass
802.11n (HT20)	SISO	5180	1	22.443	/	Pass
		5200	1	22.855	/	Pass
		5240	1	22.860	/	Pass
802.11n (HT40)	SISO	5190	1	41.187	/	Pass
		5230	1	41.842	/	Pass
802.11ac (VHT20)	SISO	5180	1	22.121	/	Pass
		5200	1	22.202	/	Pass
		5240	1	22.315	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.232	/	Pass
		5230	1	41.145	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.962	/	Pass

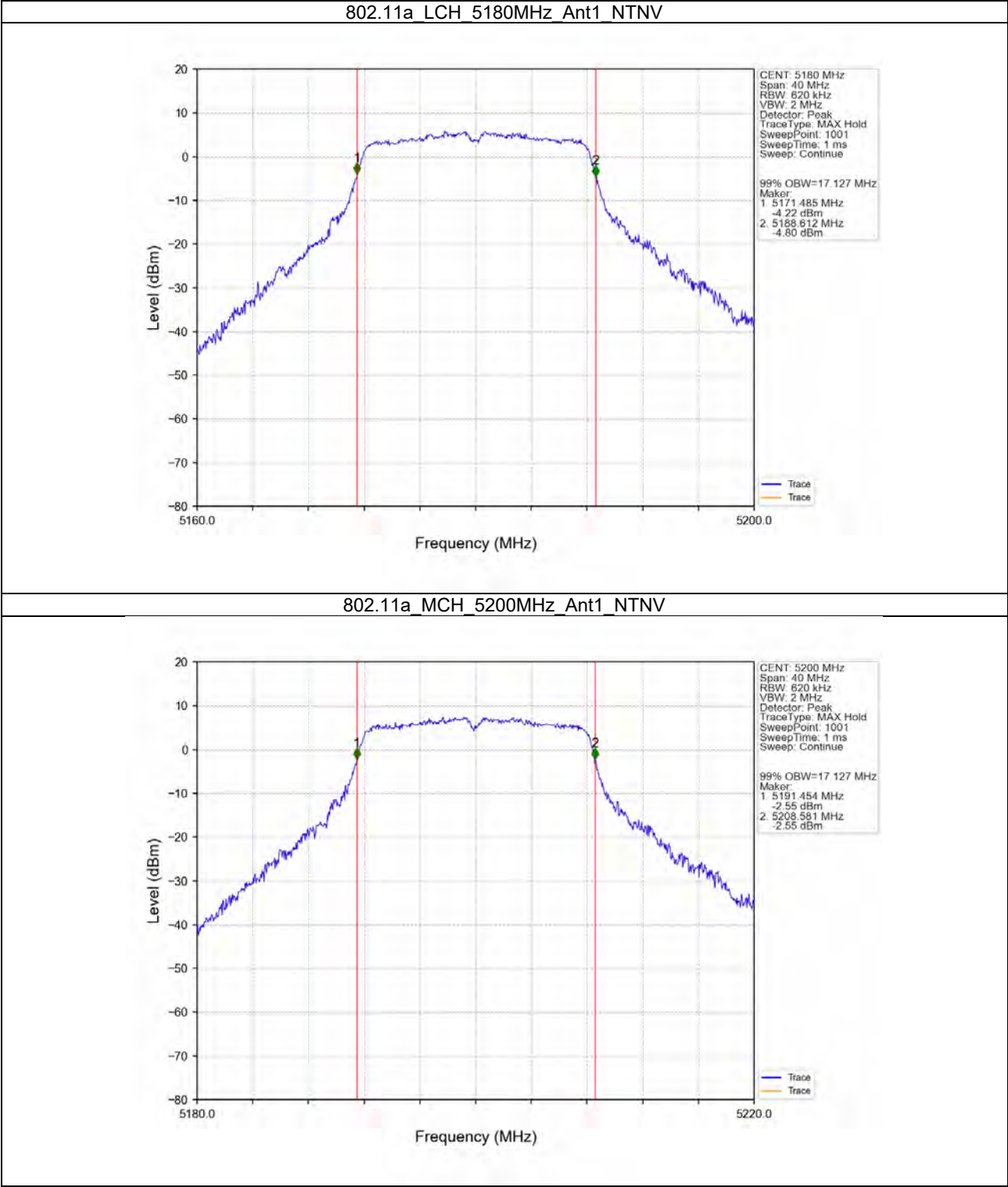


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 33 of 144

2.2 Test Graph

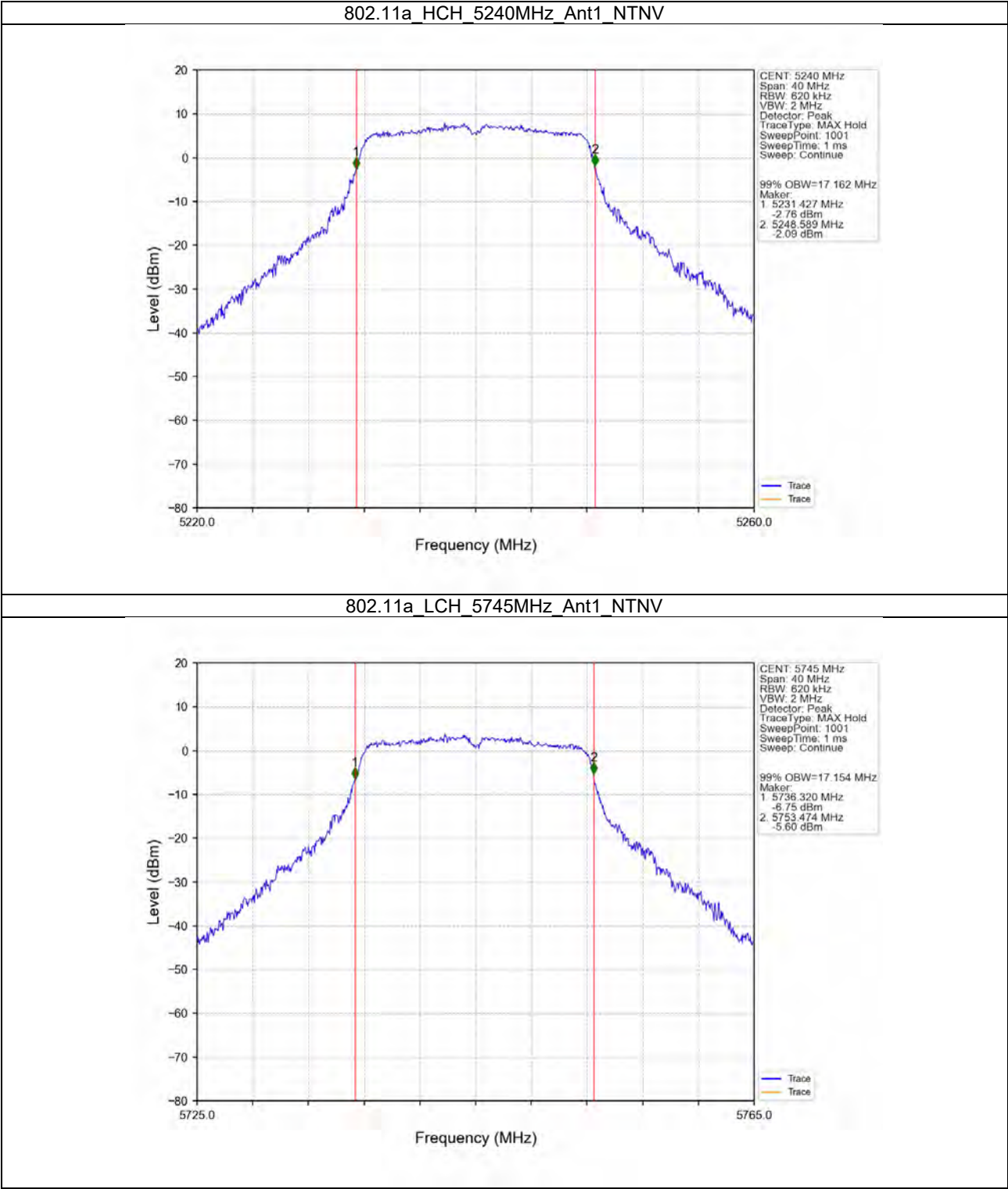
2.2.1 OBW





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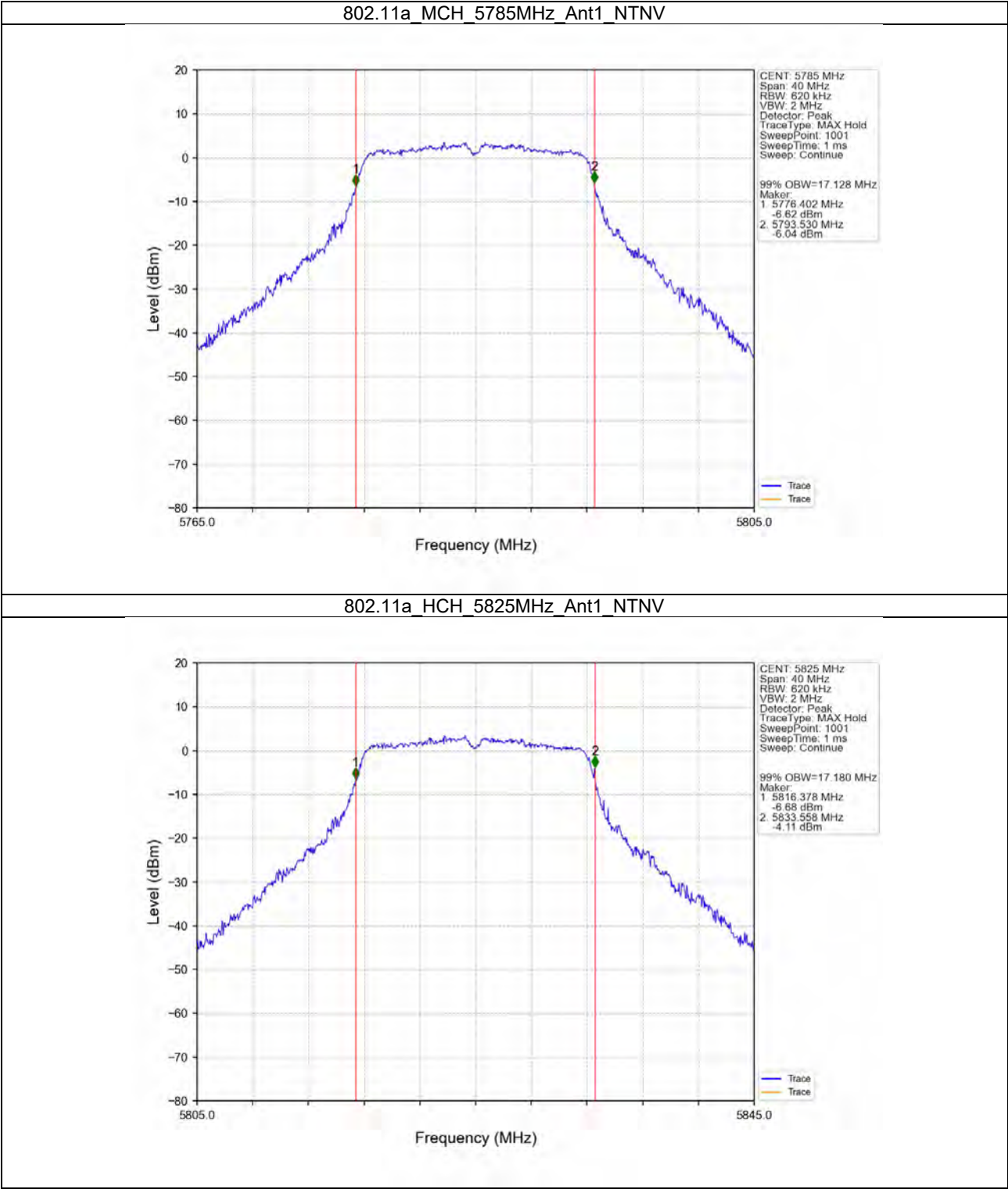
Report No.: SUCR250100001803
Rev.: 01
Page: 34 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

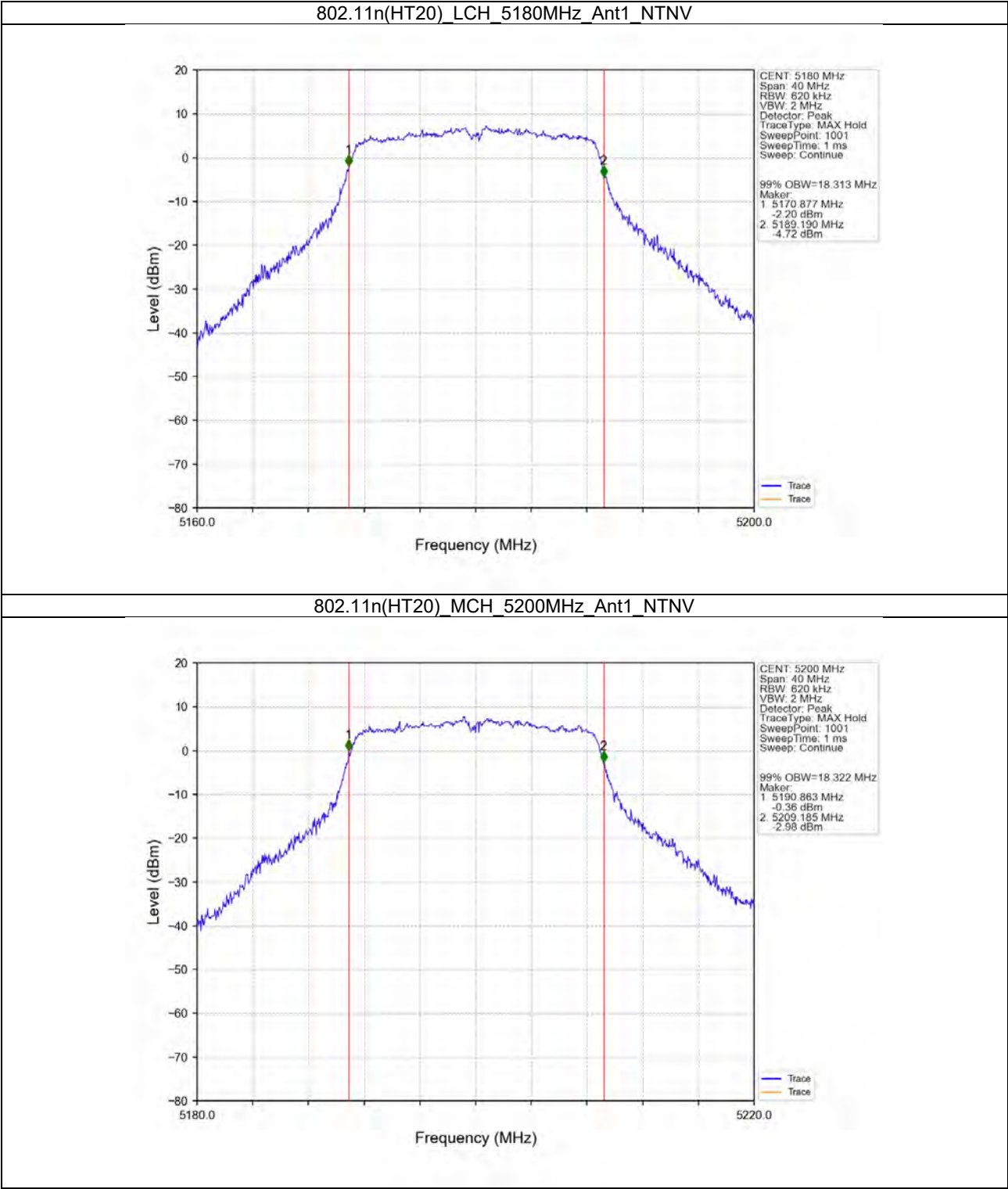
Report No.: SUCR250100001803
Rev.: 01
Page: 35 of 144





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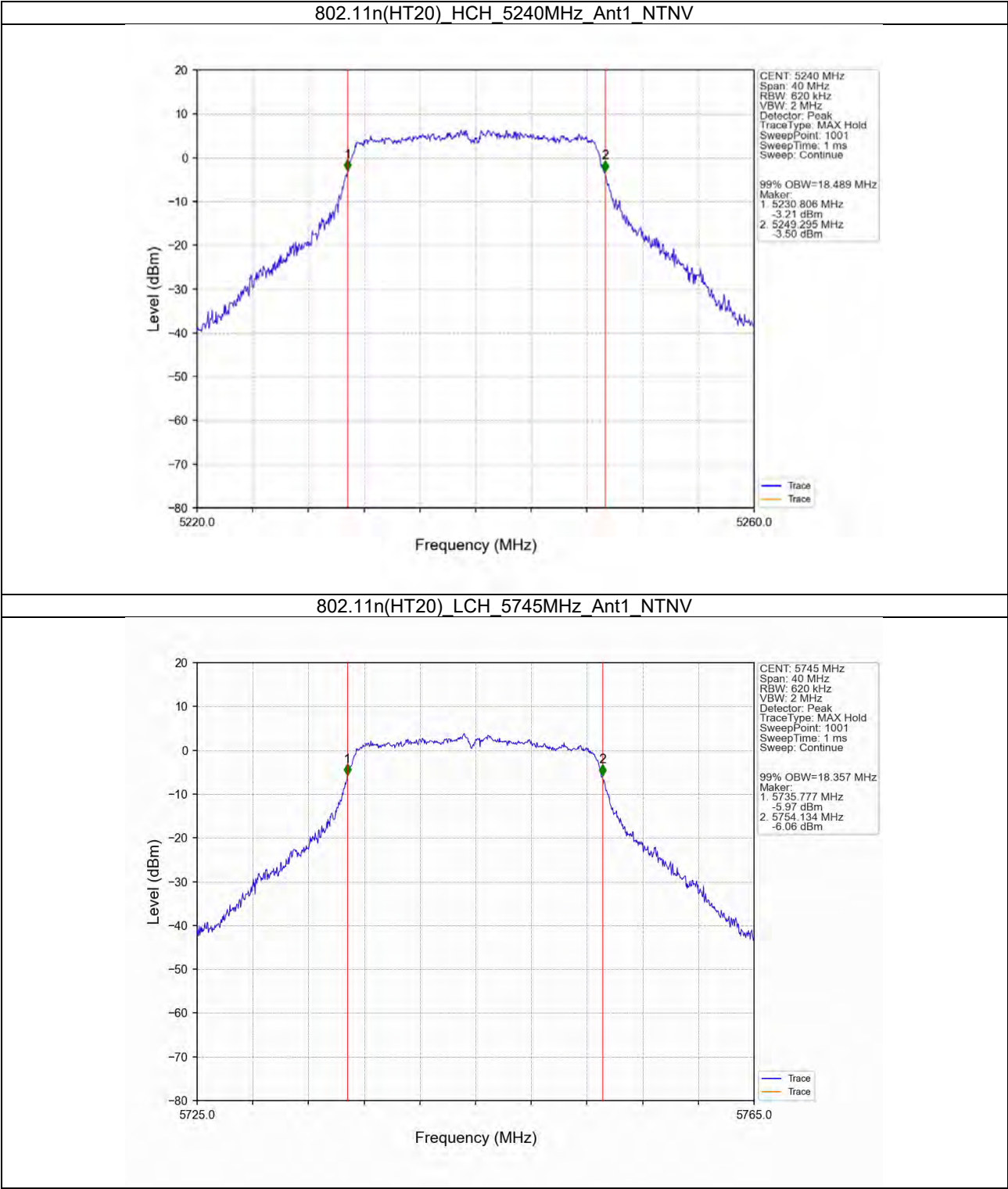
Report No.: SUCR250100001803
Rev.: 01
Page: 36 of 144





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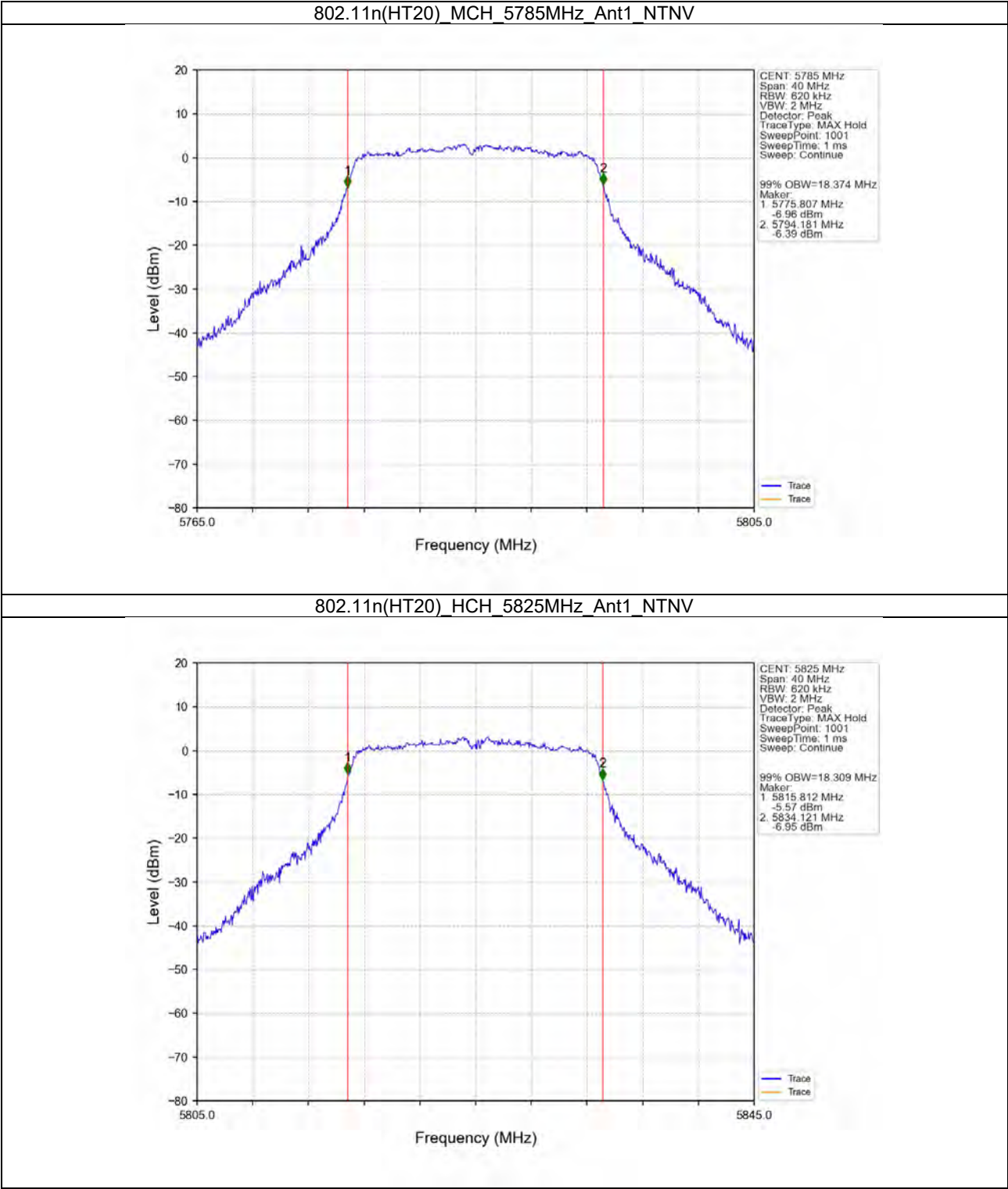
Report No.: SUCR250100001803
Rev.: 01
Page: 37 of 144





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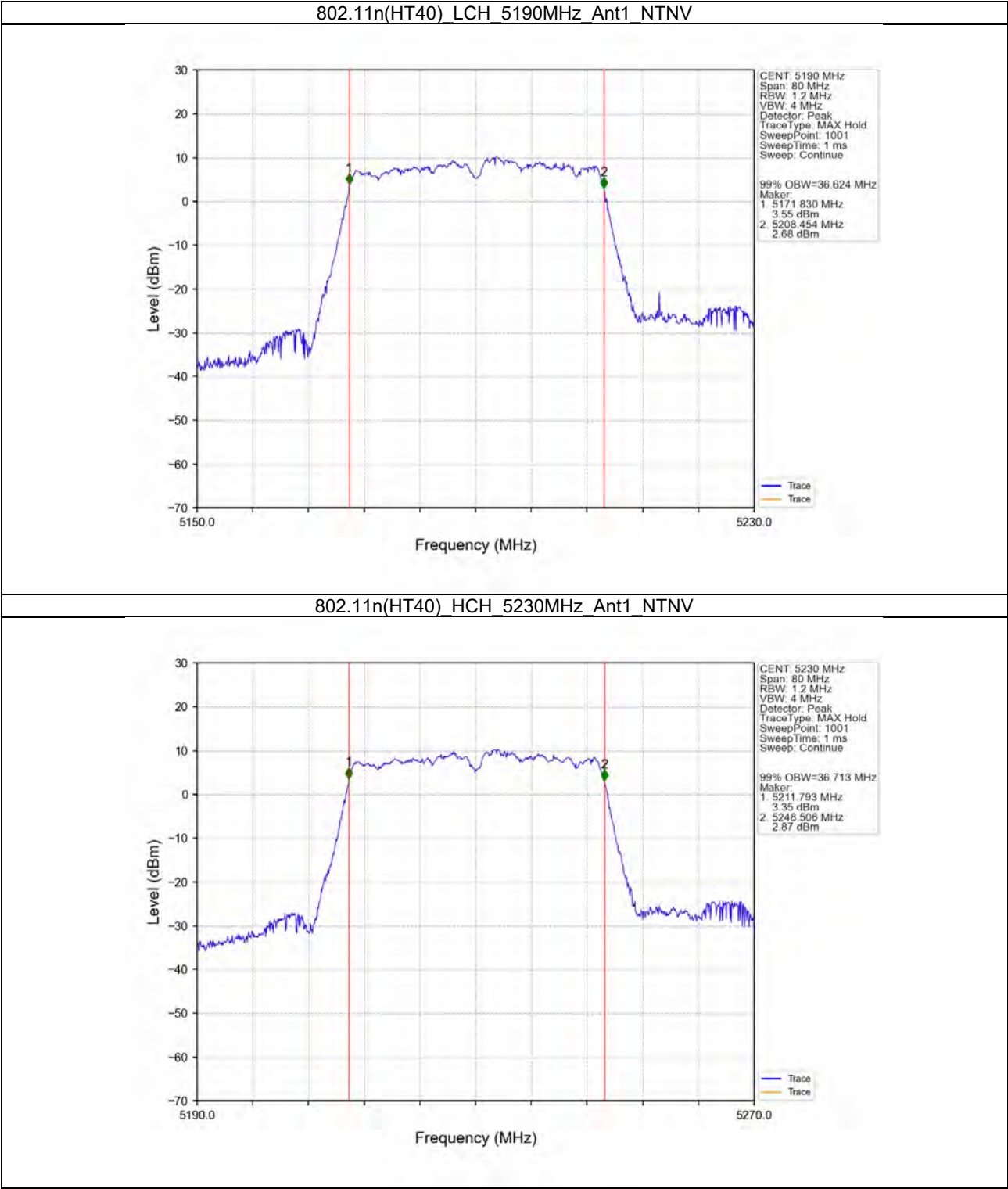
Report No.: SUCR250100001803
Rev.: 01
Page: 38 of 144





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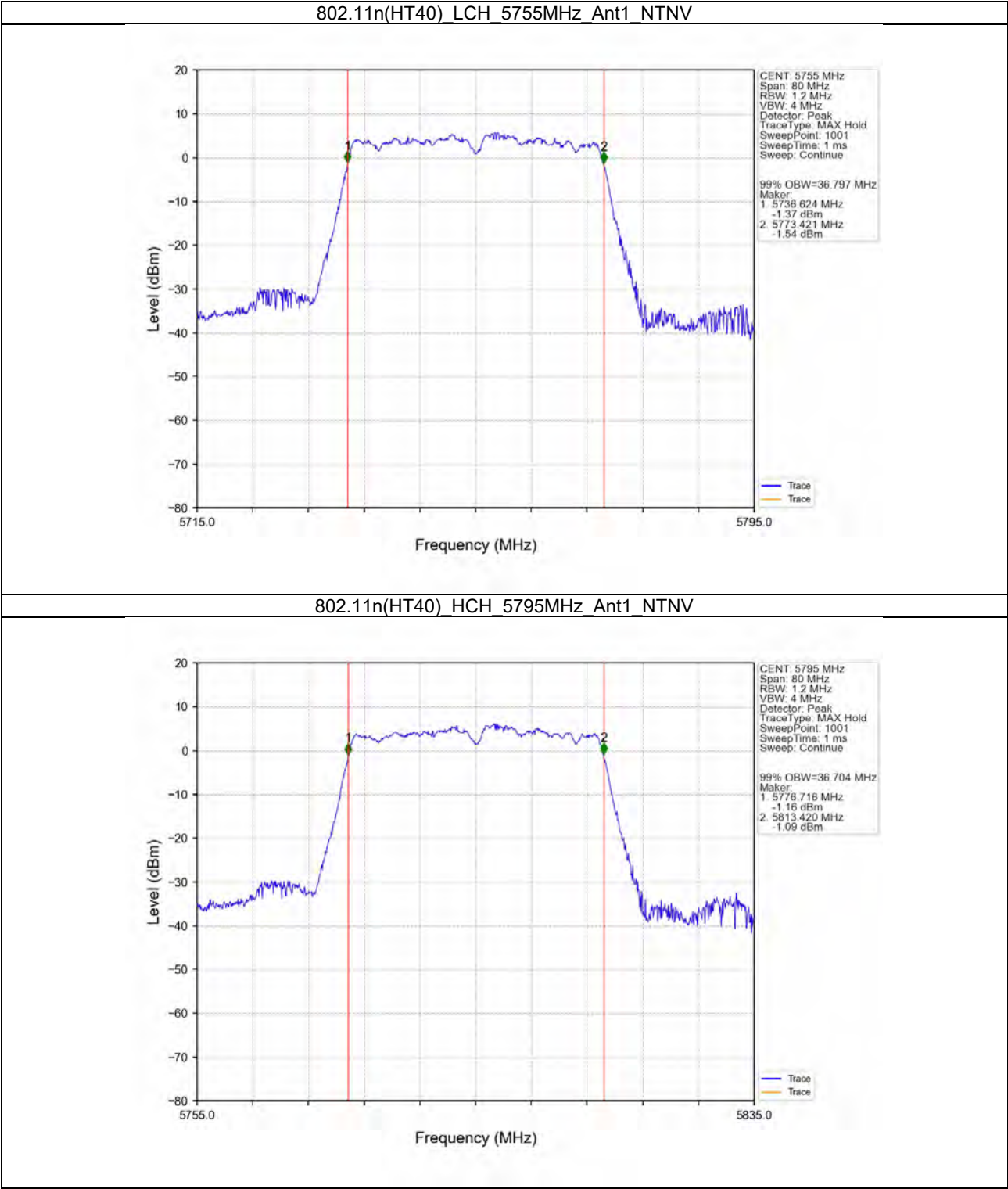
Report No.: SUCR250100001803
Rev.: 01
Page: 39 of 144





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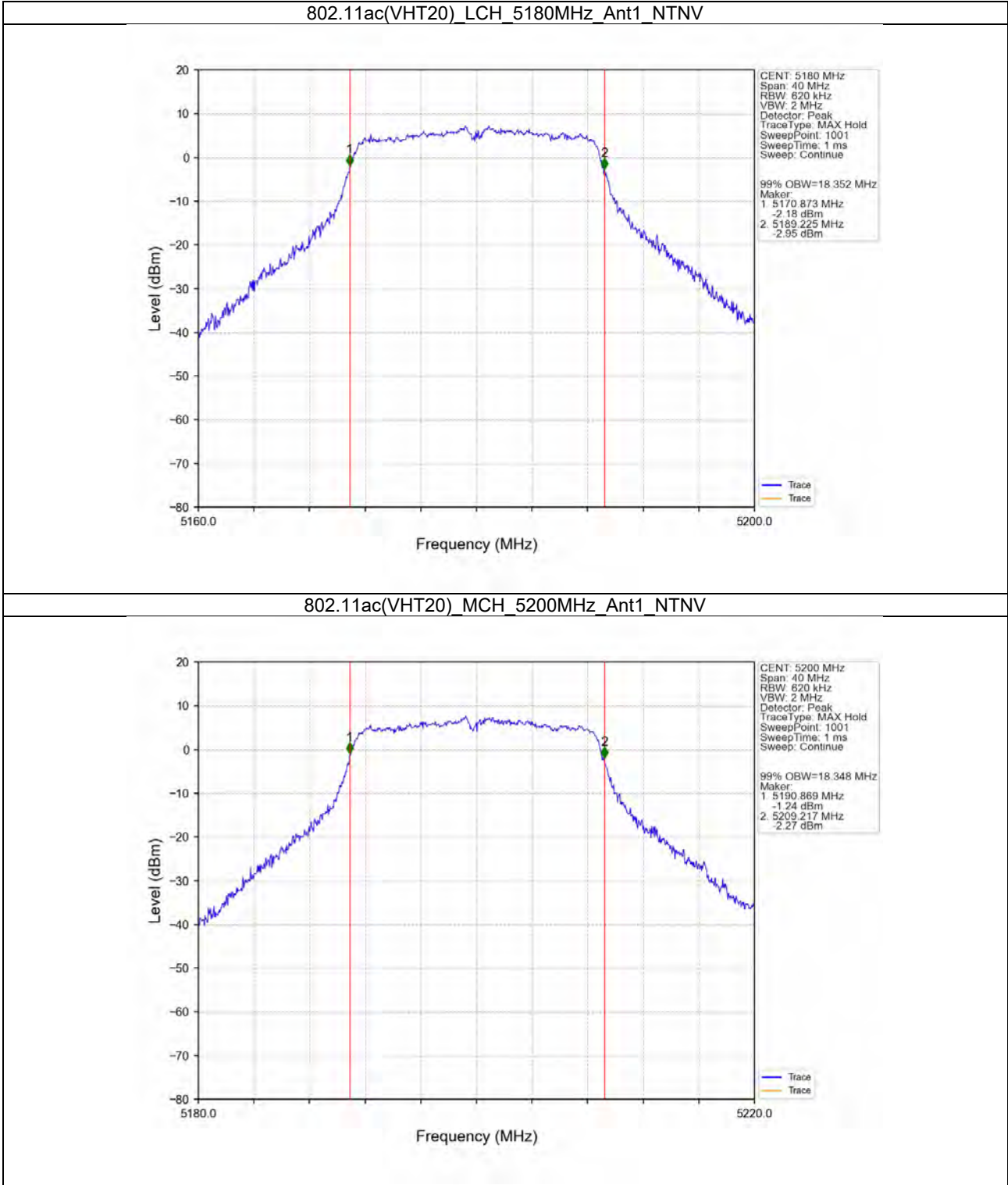
Report No.: SUCR250100001803
Rev.: 01
Page: 40 of 144





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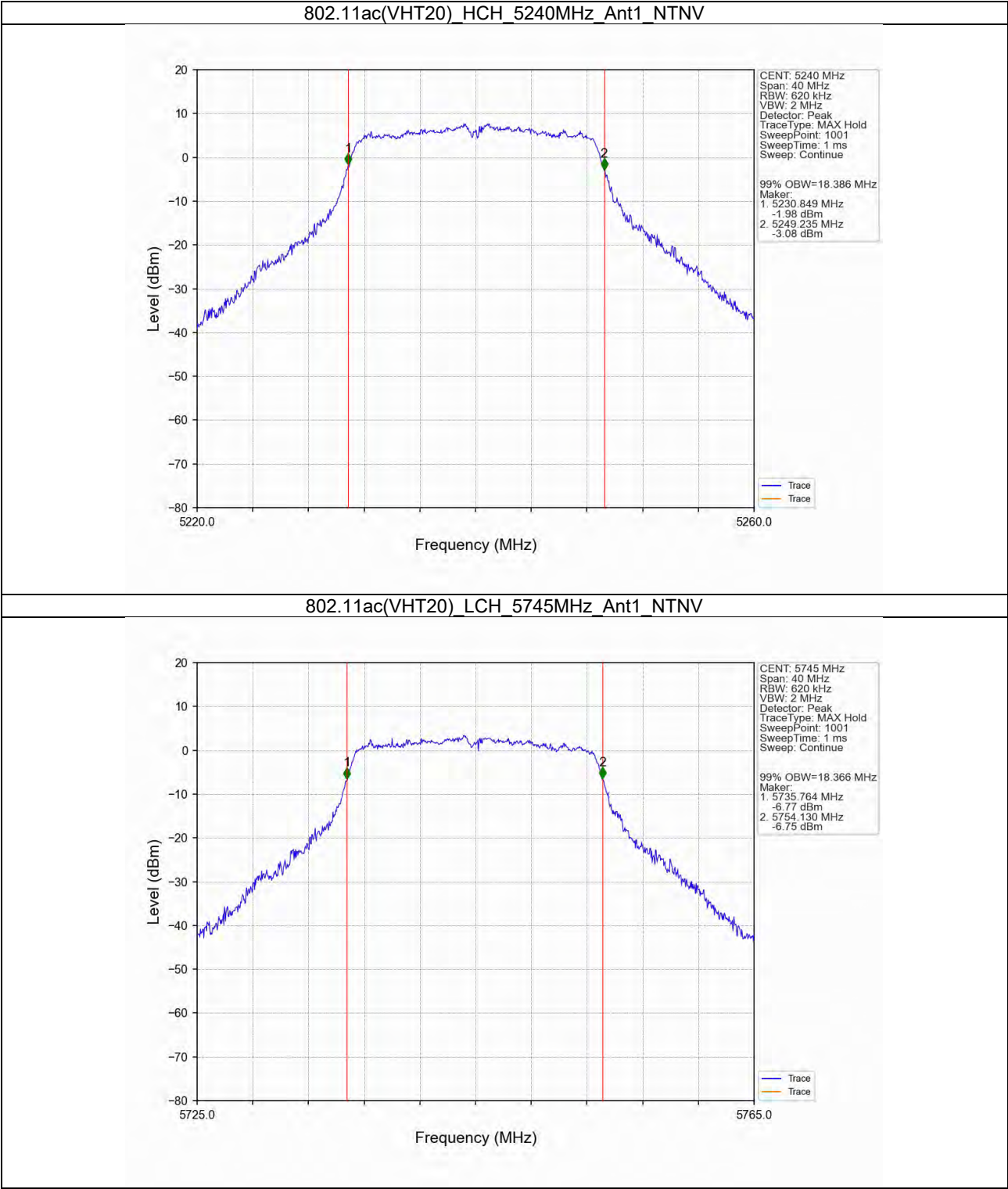
Report No.: SUCR250100001803
Rev.: 01
Page: 41 of 144





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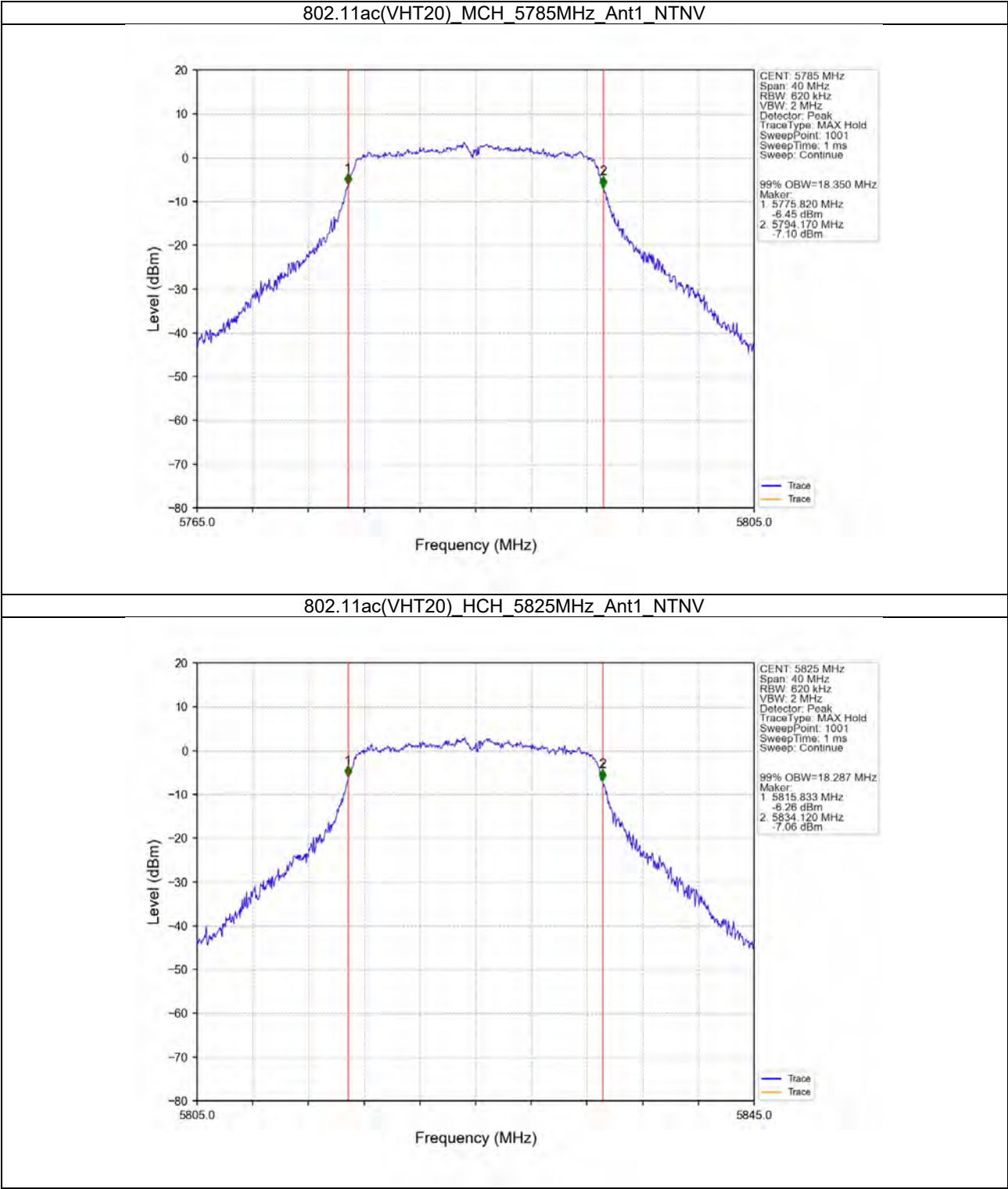
Report No.: SUCR250100001803
Rev.: 01
Page: 42 of 144





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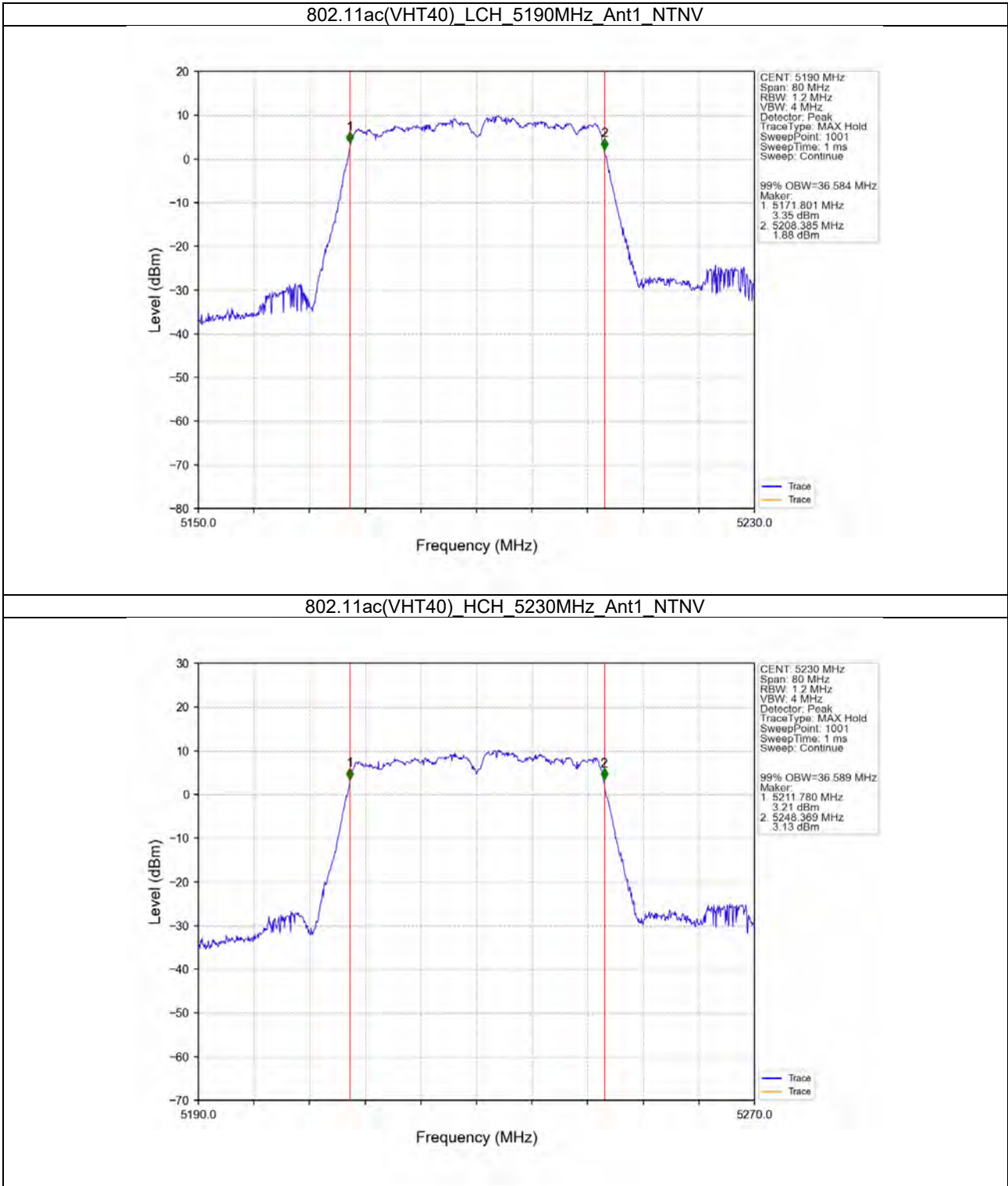
Report No.: SUCR250100001803
Rev.: 01
Page: 43 of 144





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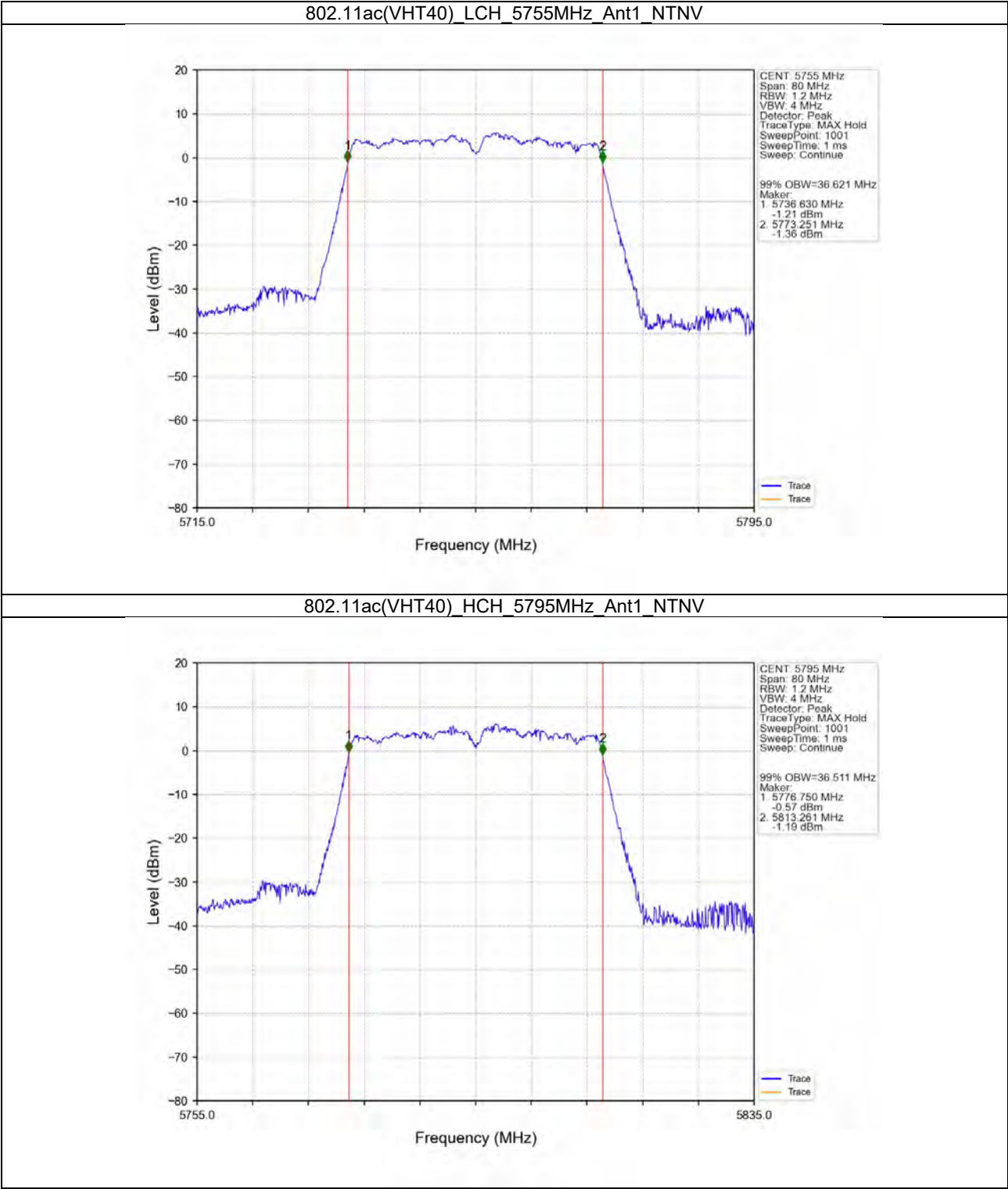
Report No.: SUCR250100001803
Rev.: 01
Page: 44 of 144





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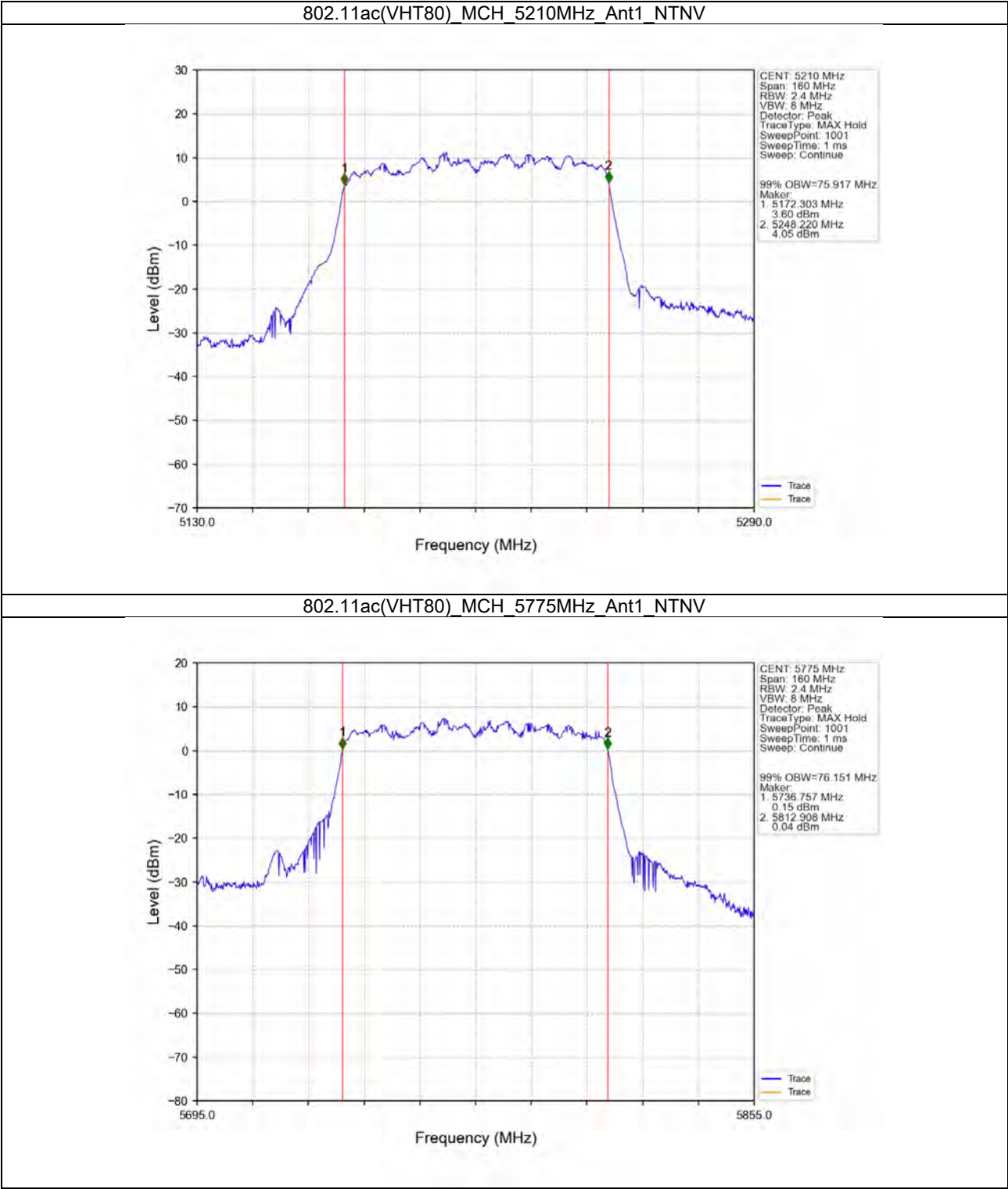
Report No.: SUCR250100001803
Rev.: 01
Page: 45 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 46 of 144

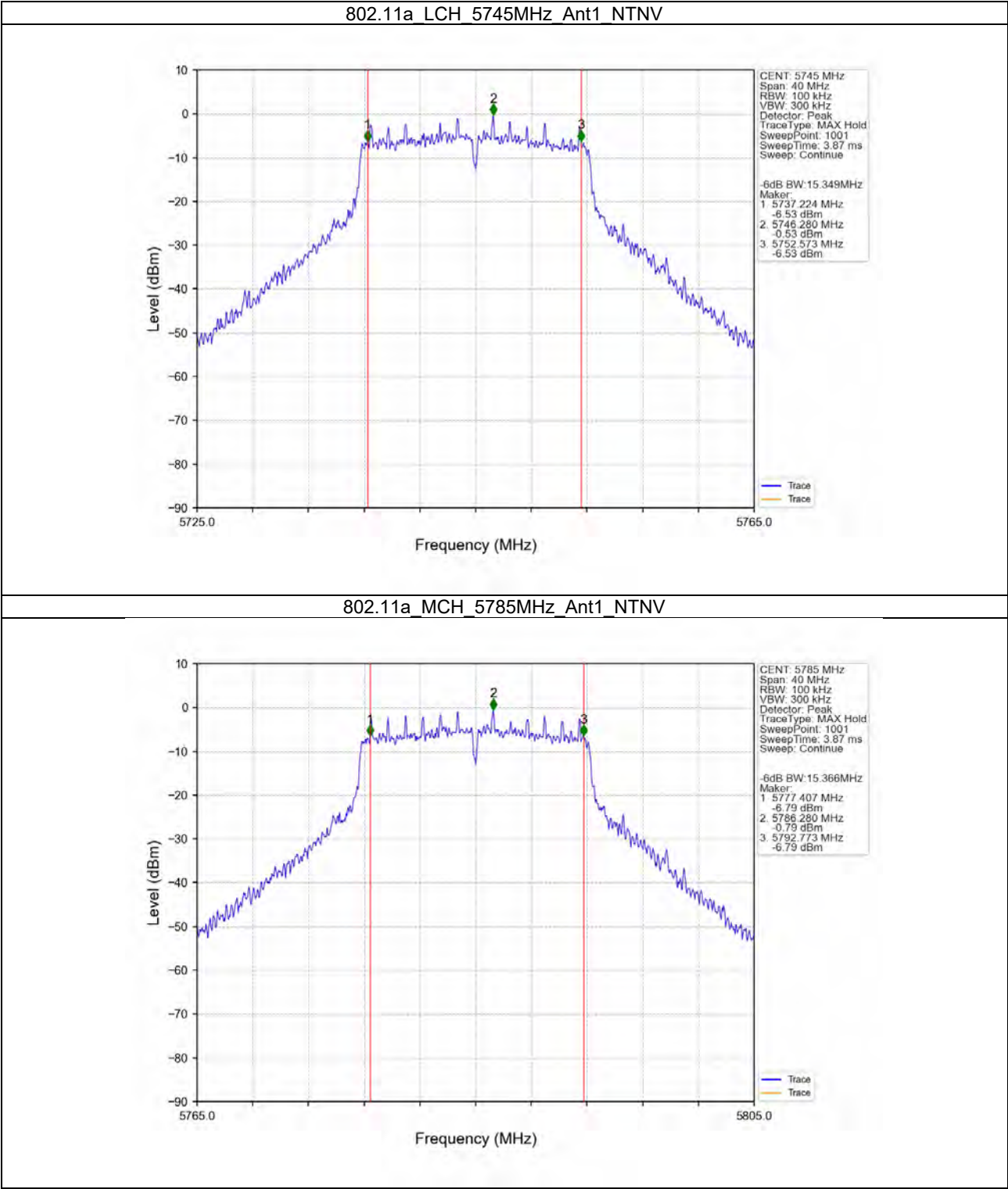




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 47 of 144

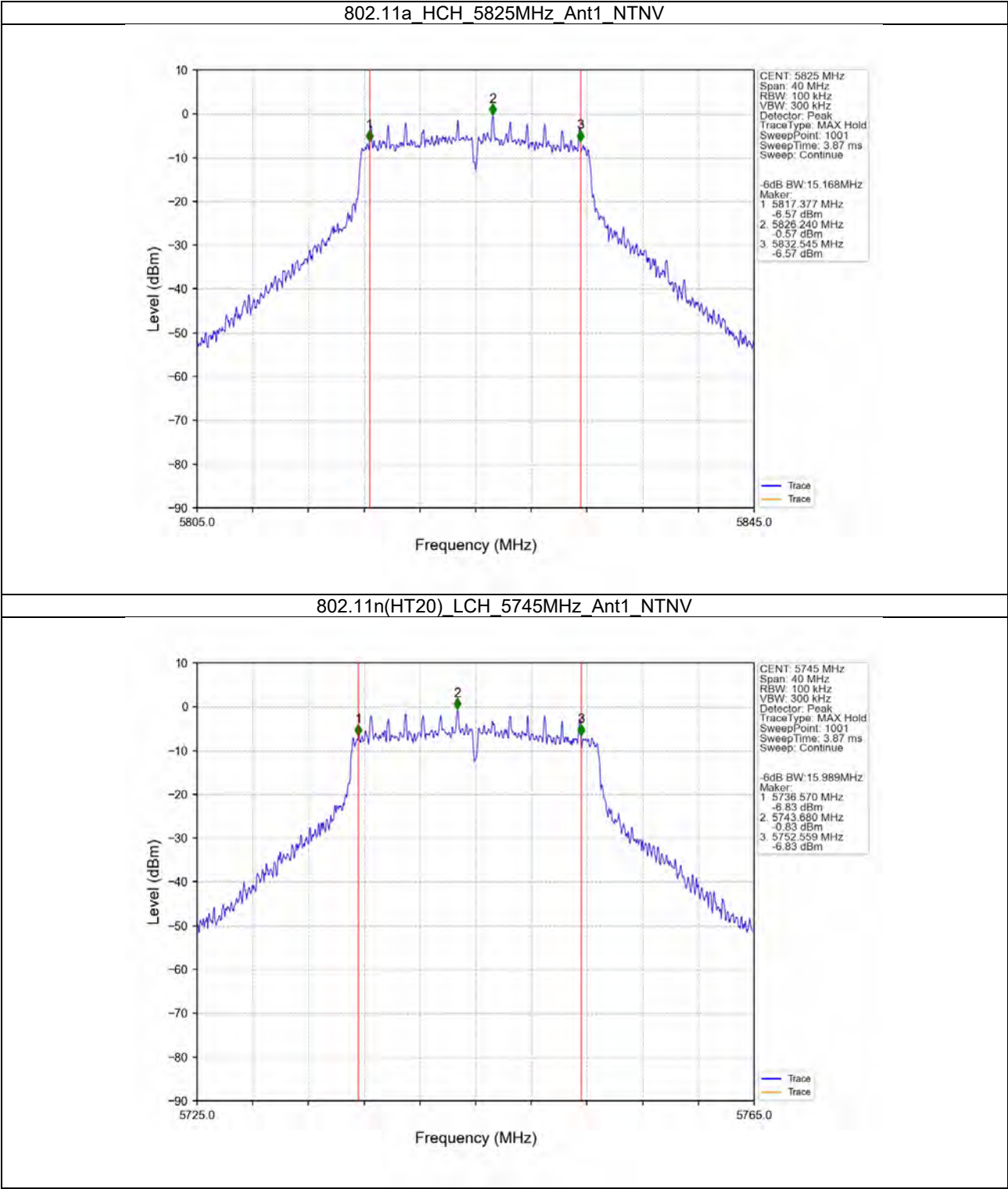
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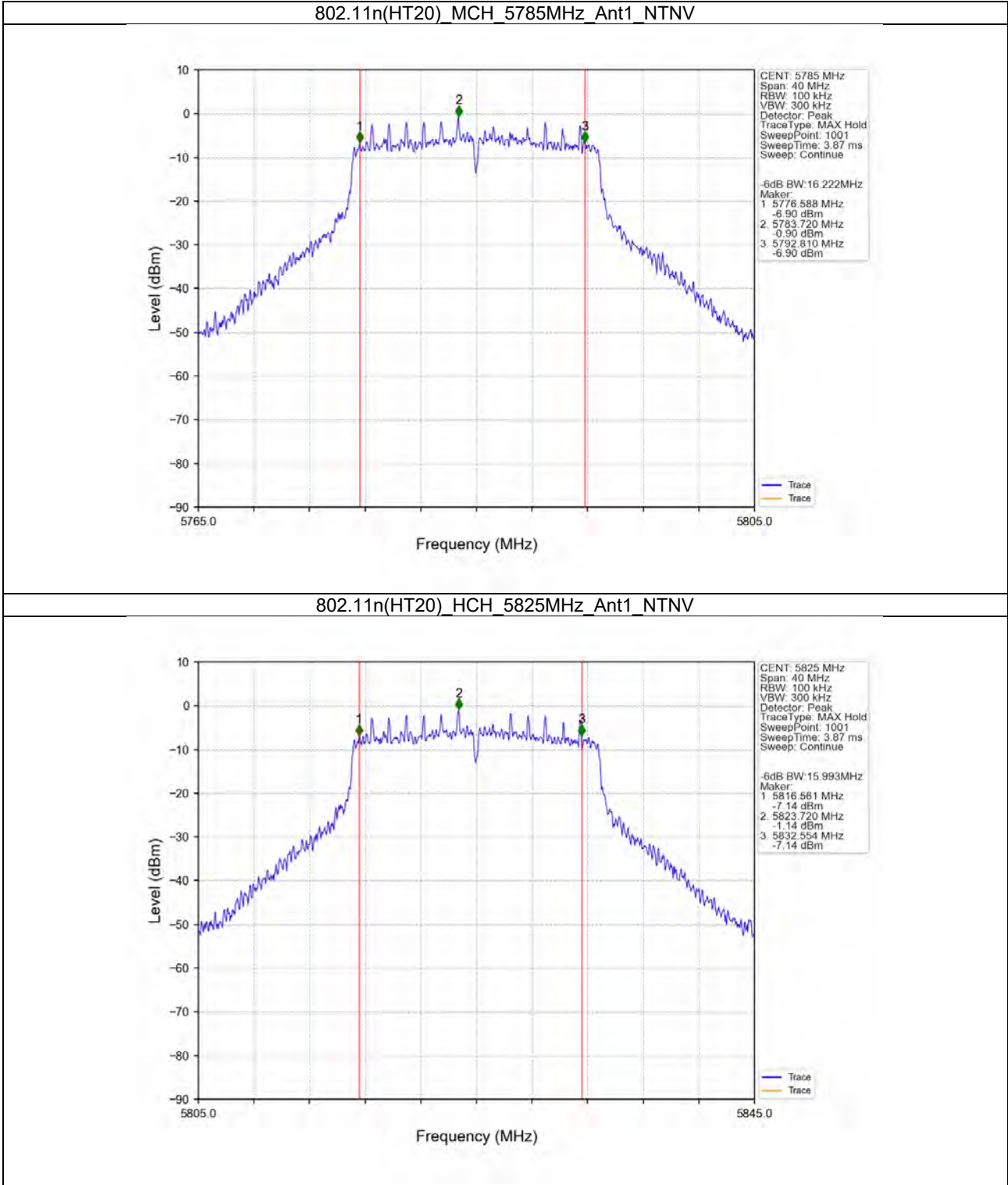
Report No.: SUCR250100001803
Rev.: 01
Page: 48 of 144





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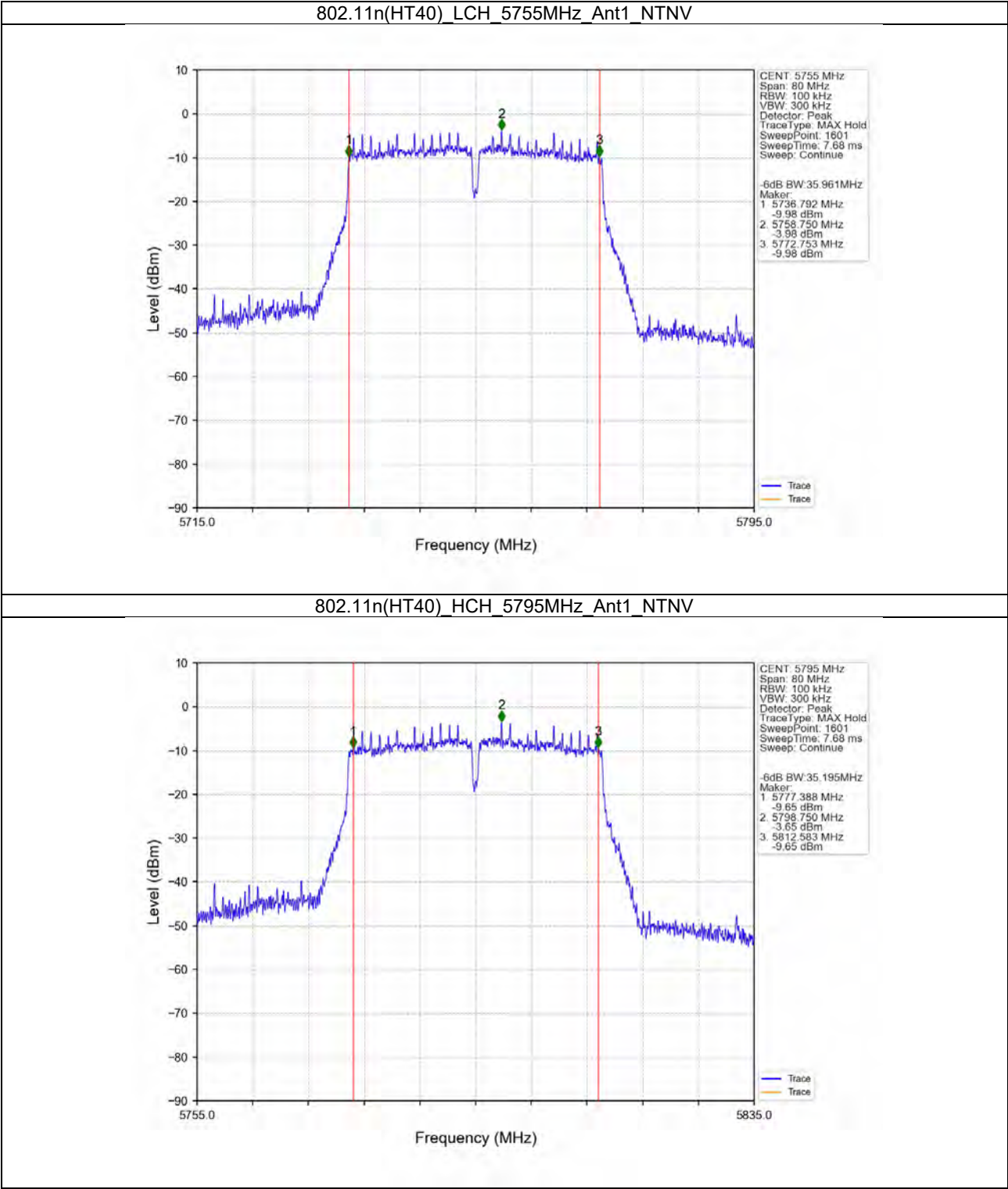
Report No.: SUCR250100001803
Rev.: 01
Page: 49 of 144





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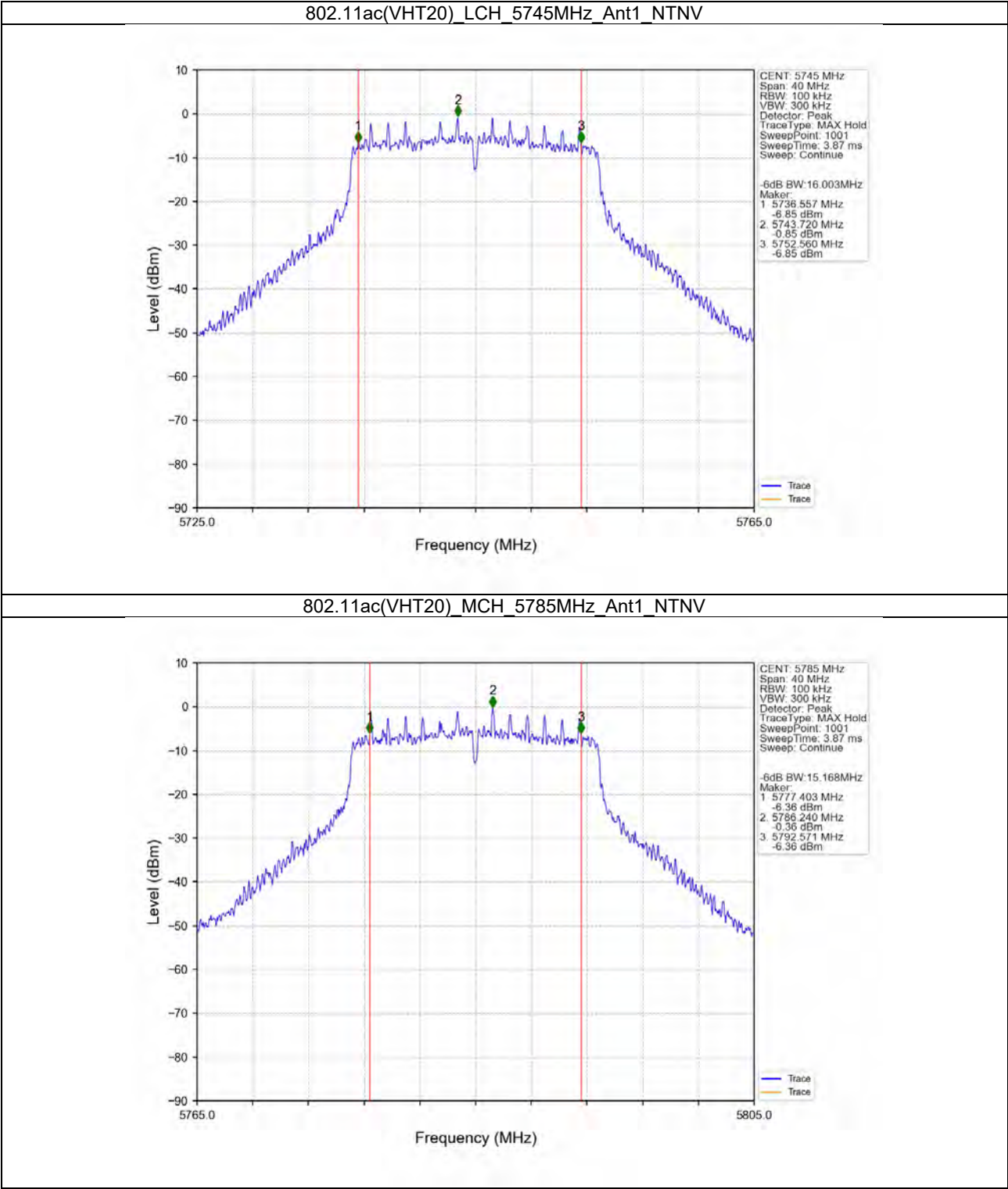
Report No.: SUCR250100001803
Rev.: 01
Page: 50 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

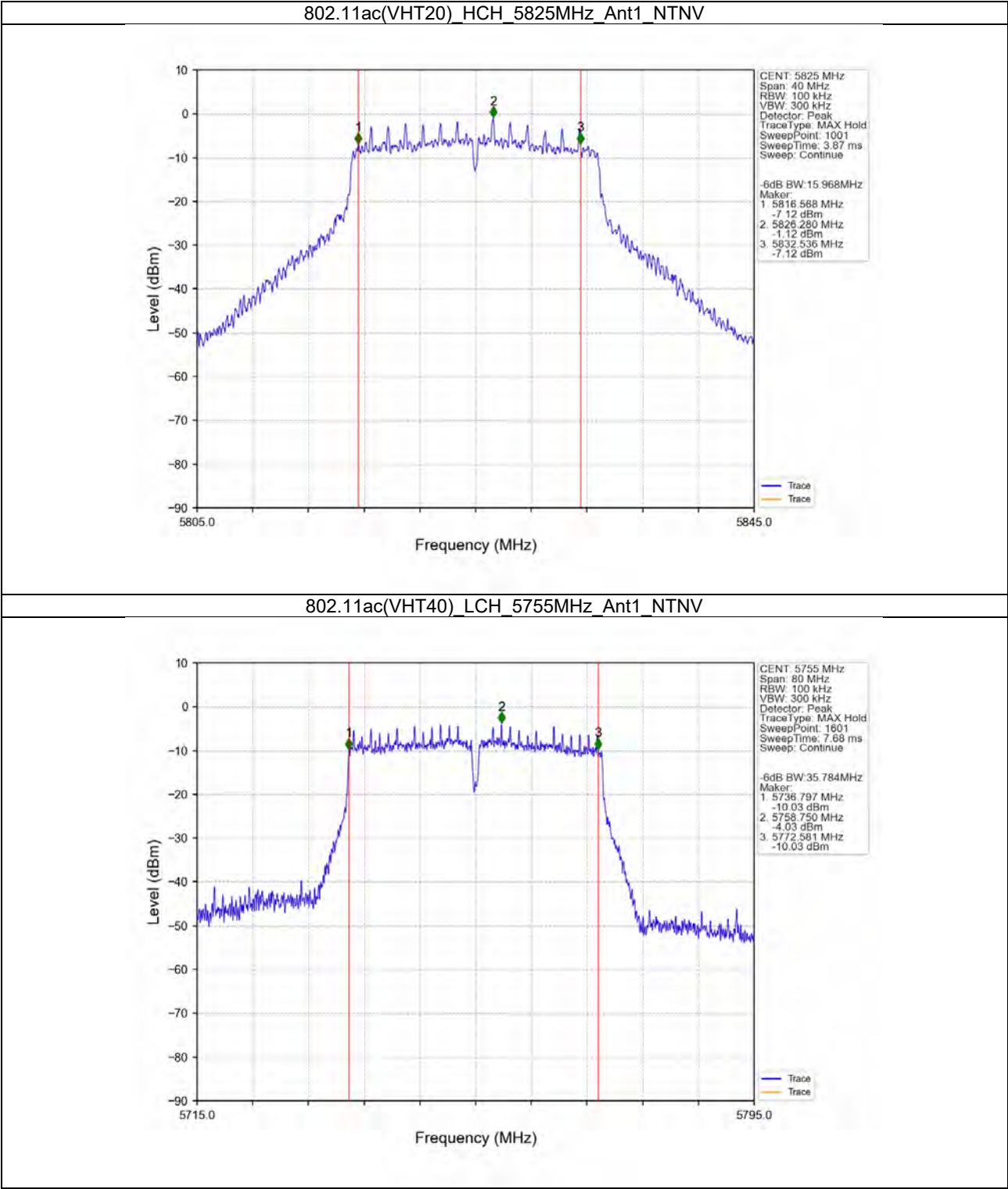
Report No.: SUCR250100001803
Rev.: 01
Page: 51 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

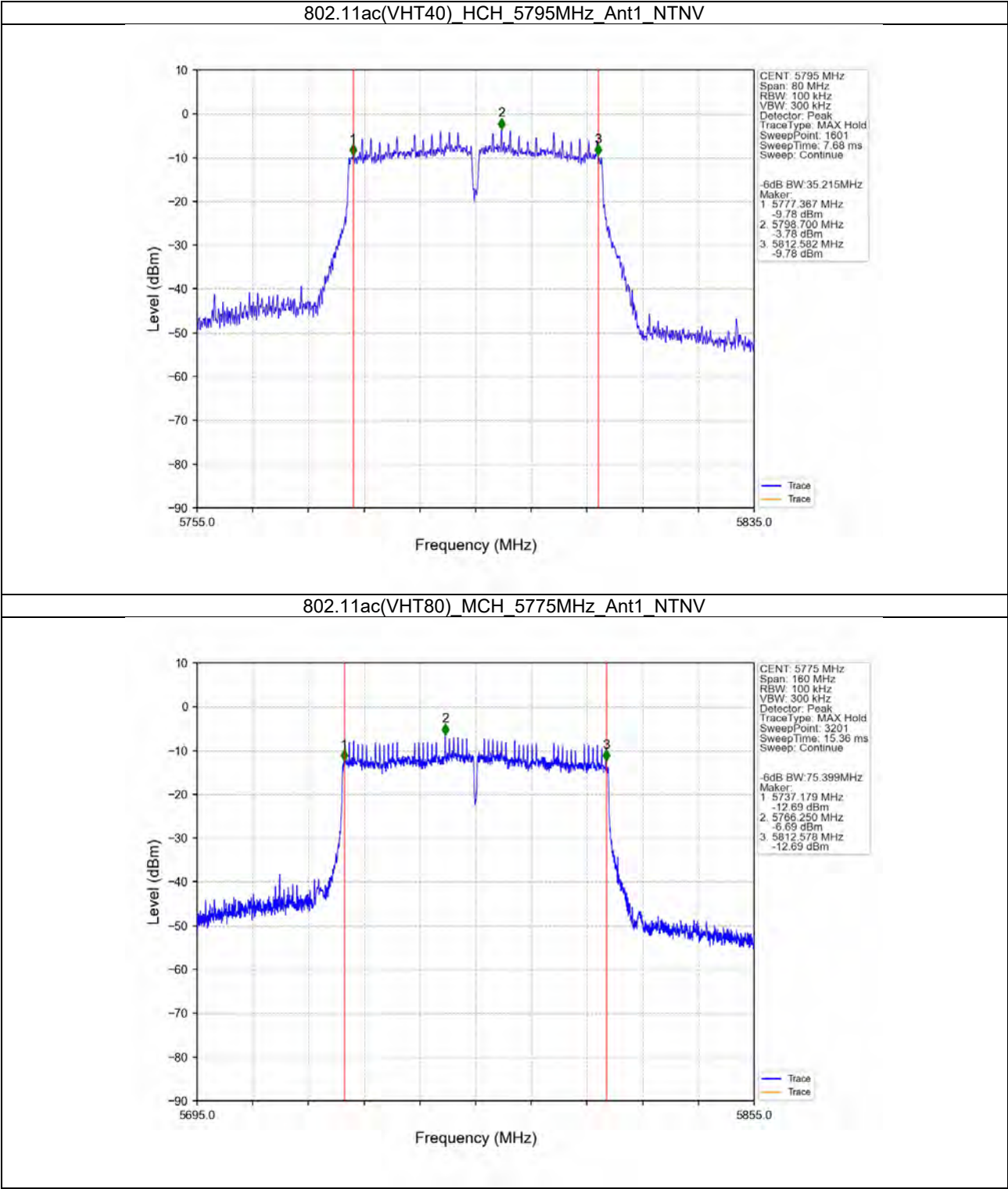
Report No.: SUCR250100001803
Rev.: 01
Page: 52 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 53 of 144

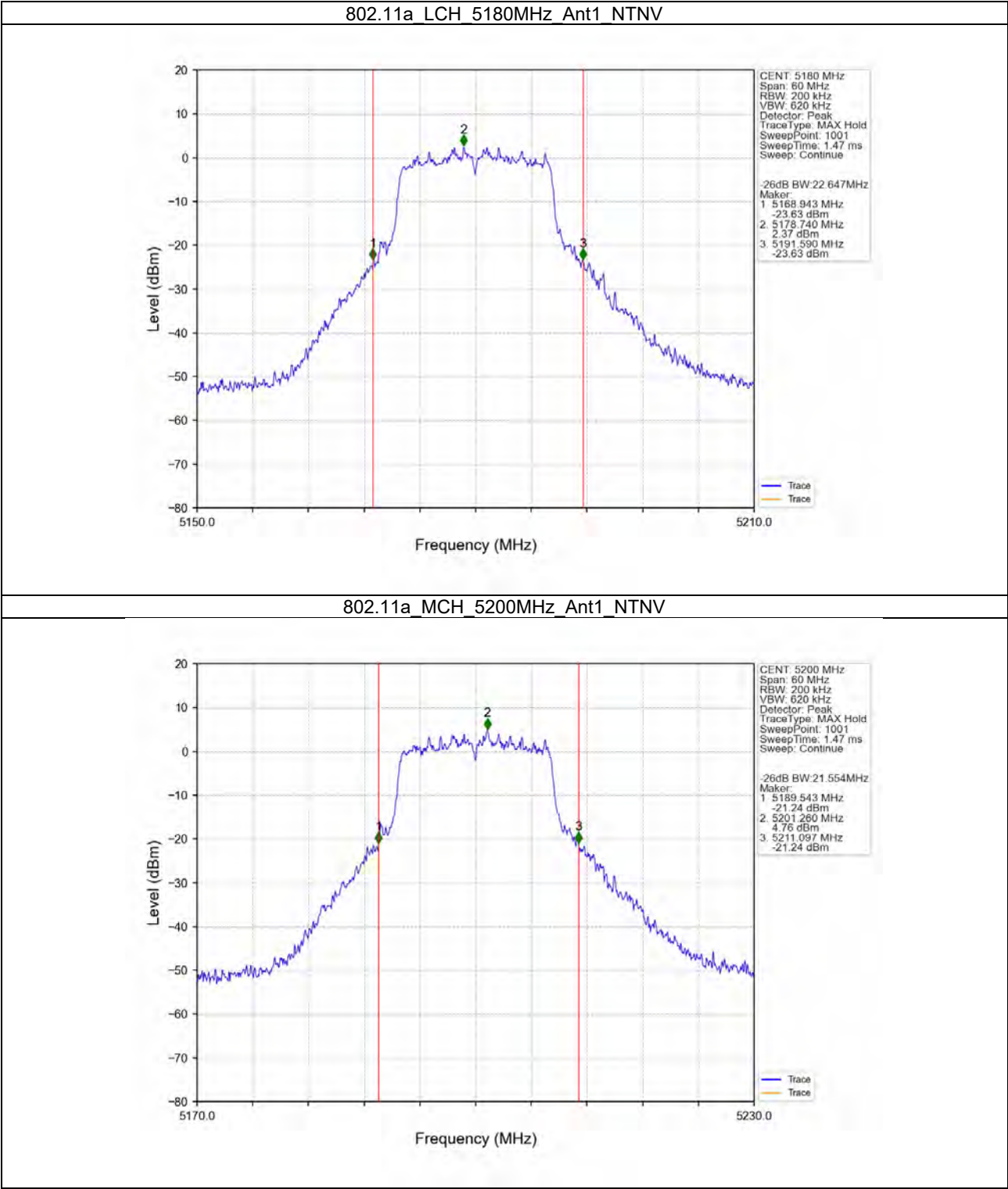




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 54 of 144

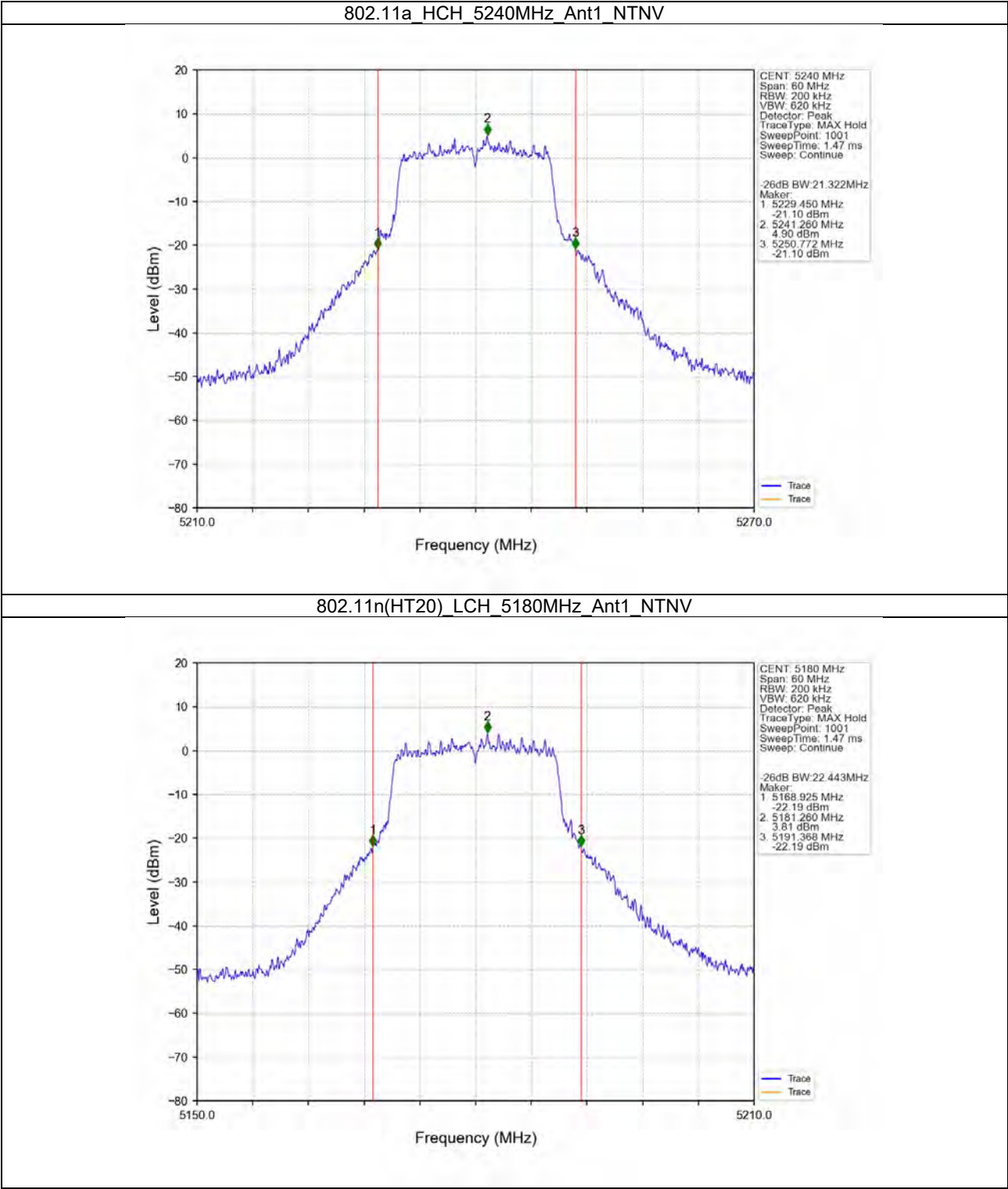
2.2.3 26dB BW





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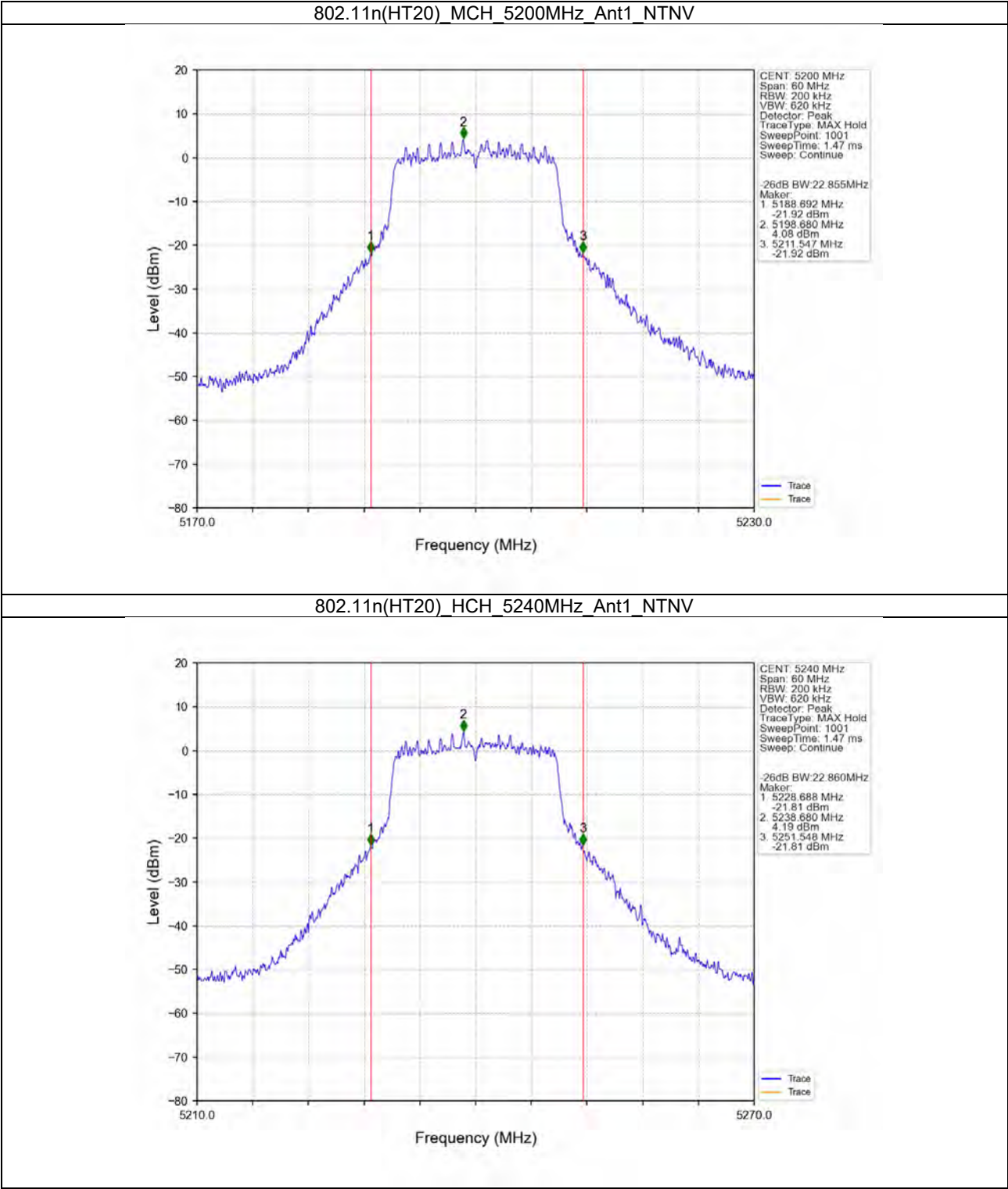
Report No.: SUCR250100001803
Rev.: 01
Page: 55 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

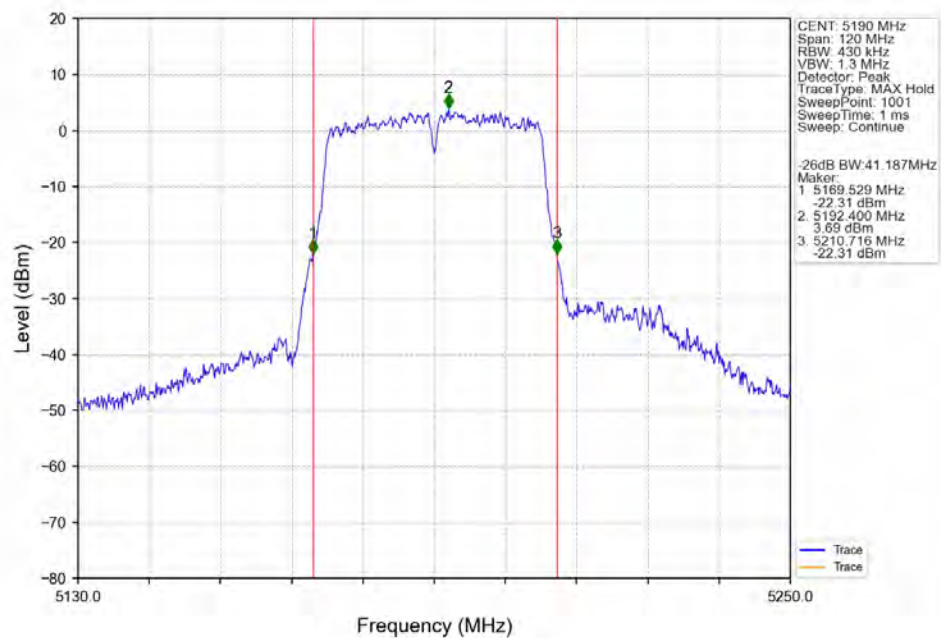
Report No.: SUCR250100001803
Rev.: 01
Page: 56 of 144



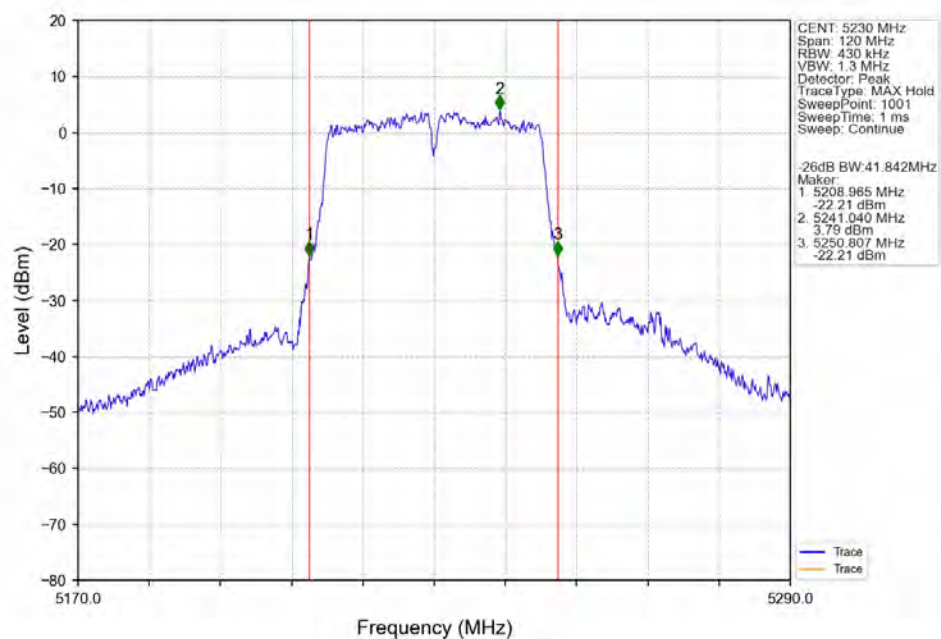
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
 Rev.: 01
 Page: 57 of 144

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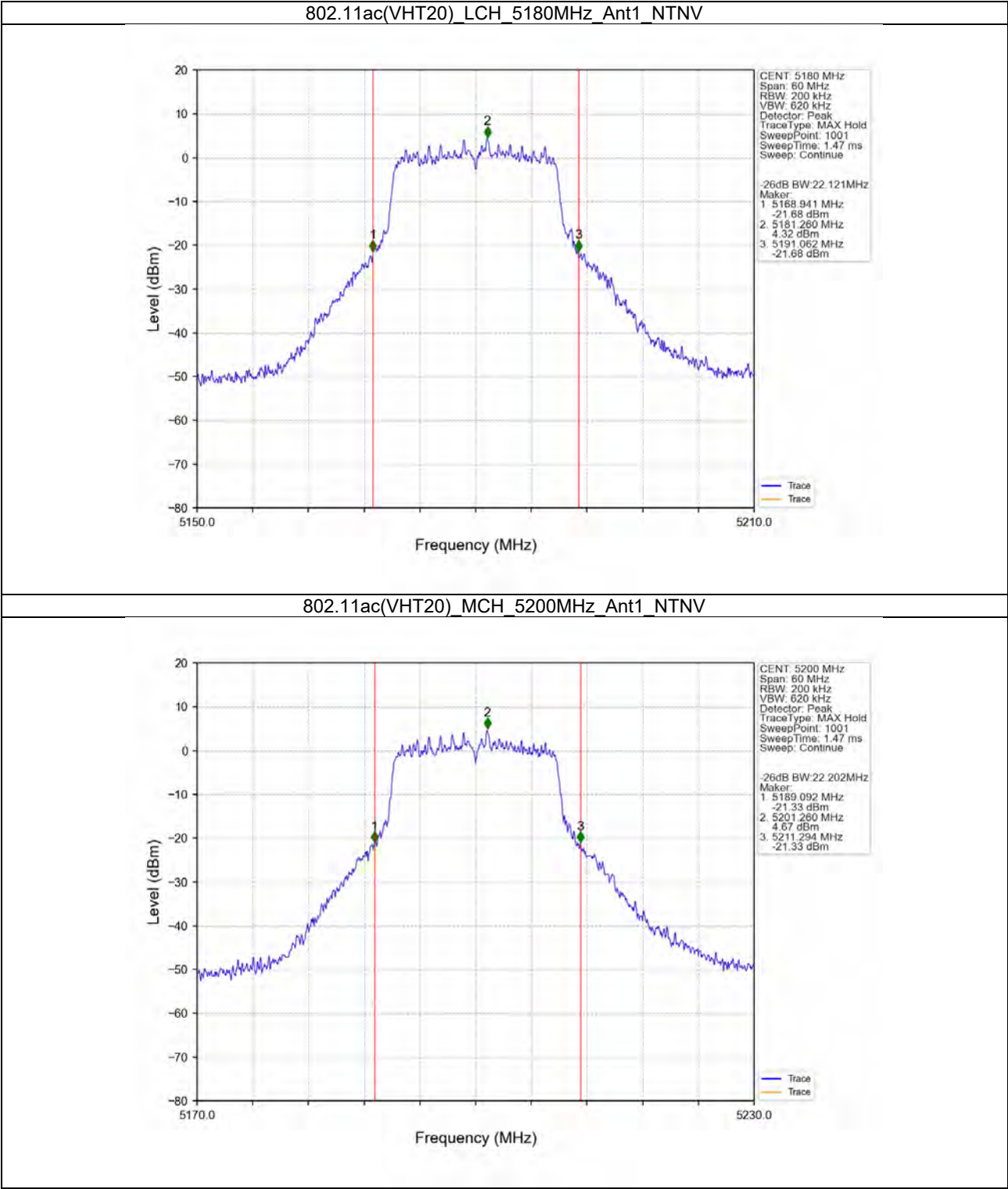
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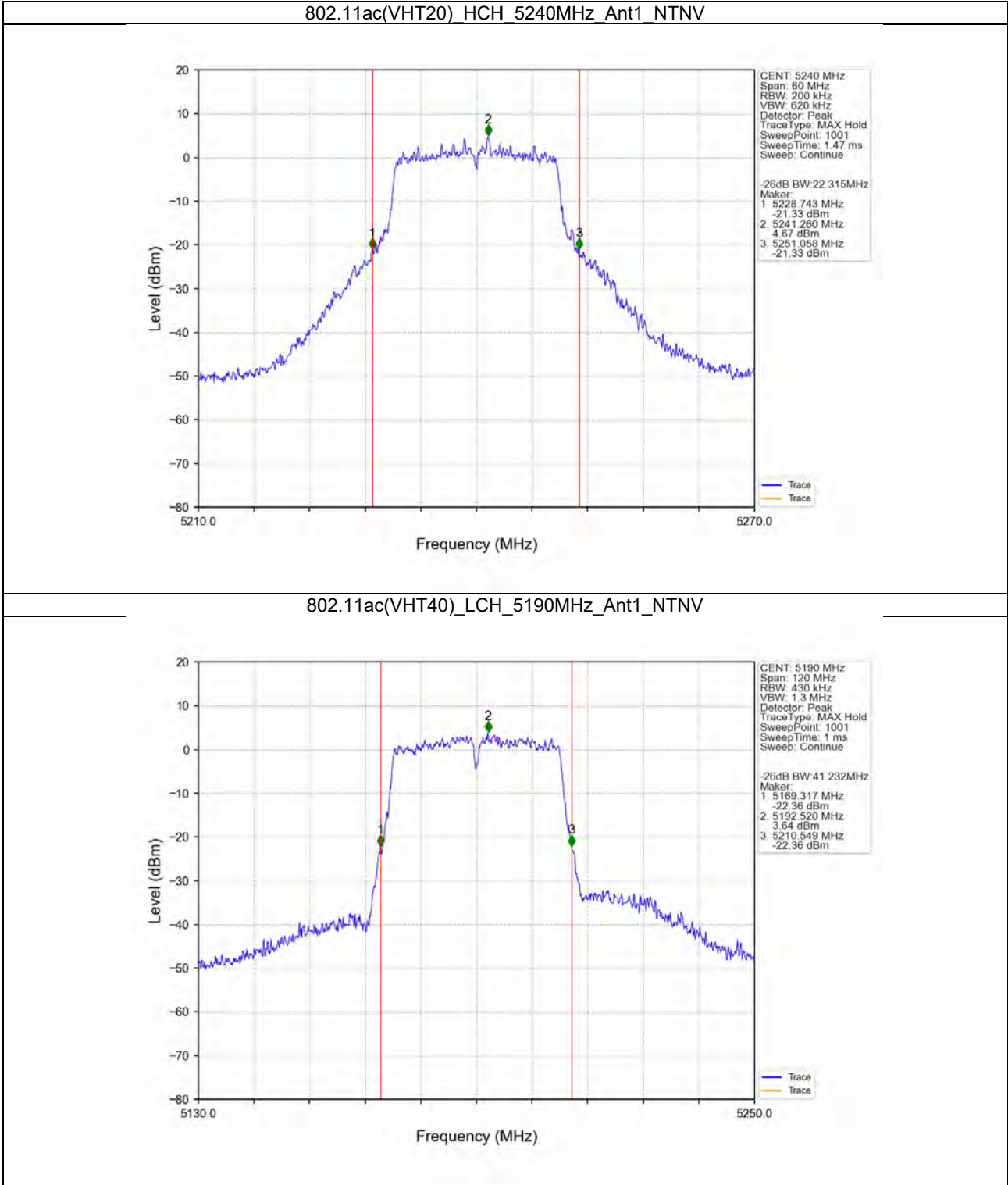
Report No.: SUCR250100001803
Rev.: 01
Page: 58 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

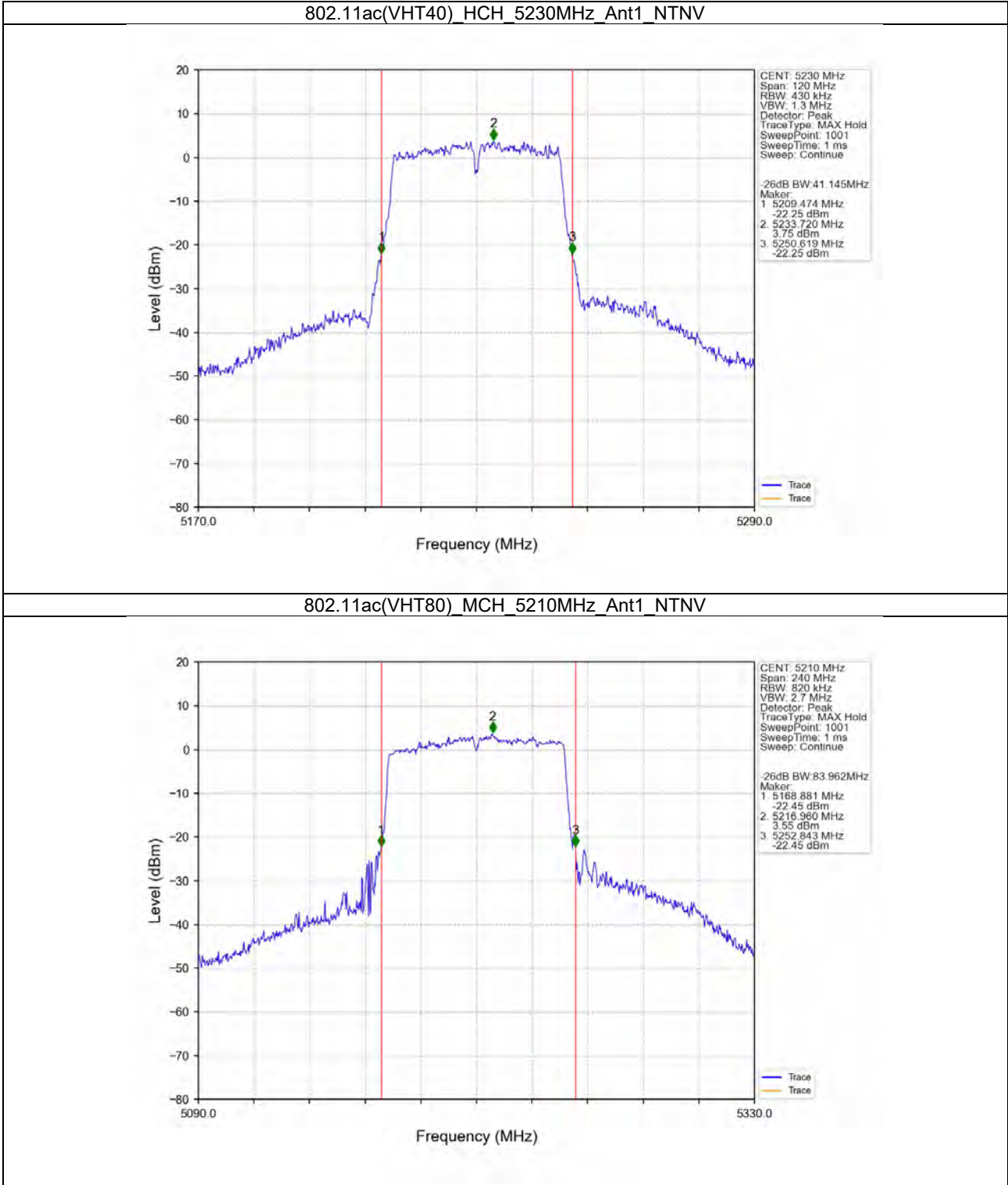
Report No.: SUCR250100001803
Rev.: 01
Page: 59 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 60 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 61 of 144

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	12.56	≤ 30	Pass
		5200	12.87	≤ 30	Pass
		5240	13.08	≤ 30	Pass
		5745	8.87	≤ 30	Pass
		5785	8.85	≤ 30	Pass
		5825	8.54	≤ 30	Pass
802.11n (HT20)	SISO	5180	12.44	≤ 30	Pass
		5200	12.73	≤ 30	Pass
		5240	12.93	≤ 30	Pass
		5745	8.72	≤ 30	Pass
		5785	8.70	≤ 30	Pass
		5825	8.37	≤ 30	Pass
802.11n (HT40)	SISO	5190	13.57	≤ 30	Pass
		5230	13.90	≤ 30	Pass
		5755	9.64	≤ 30	Pass
		5795	9.75	≤ 30	Pass
802.11ac (VHT20)	SISO	5180	12.37	≤ 30	Pass
		5200	12.66	≤ 30	Pass
		5240	12.84	≤ 30	Pass
		5745	8.64	≤ 30	Pass
		5785	8.55	≤ 30	Pass
		5825	8.18	≤ 30	Pass
802.11ac (VHT40)	SISO	5190	13.45	≤ 30	Pass
		5230	13.75	≤ 30	Pass
		5755	9.51	≤ 30	Pass
		5795	9.69	≤ 30	Pass
802.11ac (VHT80)	SISO	5210	13.25	≤ 30	Pass
		5775	9.47	≤ 30	Pass

Note1: Antenna Gain: Ant1: 3.22dBi;



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 62 of 144

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.06	≤ 17	Pass
		5200	2.33	≤ 17	Pass
		5240	2.56	≤ 17	Pass
802.11n (HT20)	SISO	5180	1.82	≤ 17	Pass
		5200	1.88	≤ 17	Pass
		5240	2.15	≤ 17	Pass
802.11n (HT40)	SISO	5190	-0.23	≤ 17	Pass
		5230	0.12	≤ 17	Pass
802.11ac (VHT20)	SISO	5180	1.60	≤ 17	Pass
		5200	1.73	≤ 17	Pass
		5240	1.97	≤ 17	Pass
802.11ac (VHT40)	SISO	5190	-0.23	≤ 17	Pass
		5230	-0.13	≤ 17	Pass
802.11ac (VHT80)	SISO	5210	-3.55	≤ 17	Pass

Note1: Antenna Gain: Ant1: 3.22dBi;

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-4.25	≤ 30	Pass
		5785	-4.48	≤ 30	Pass
		5825	-4.75	≤ 30	Pass
802.11n (HT20)	SISO	5745	-7.07	≤ 30	Pass
		5785	-5.15	≤ 30	Pass
		5825	-5.11	≤ 30	Pass
802.11n (HT40)	SISO	5755	-7.19	≤ 30	Pass
		5795	-6.87	≤ 30	Pass
802.11ac (VHT20)	SISO	5745	-4.90	≤ 30	Pass
		5785	-5.05	≤ 30	Pass
		5825	-5.14	≤ 30	Pass
802.11ac (VHT40)	SISO	5755	-7.11	≤ 30	Pass
		5795	-6.97	≤ 30	Pass
802.11ac (VHT80)	SISO	5775	-10.11	≤ 30	Pass

Note1: Antenna Gain: Ant1: 2.96dBi;

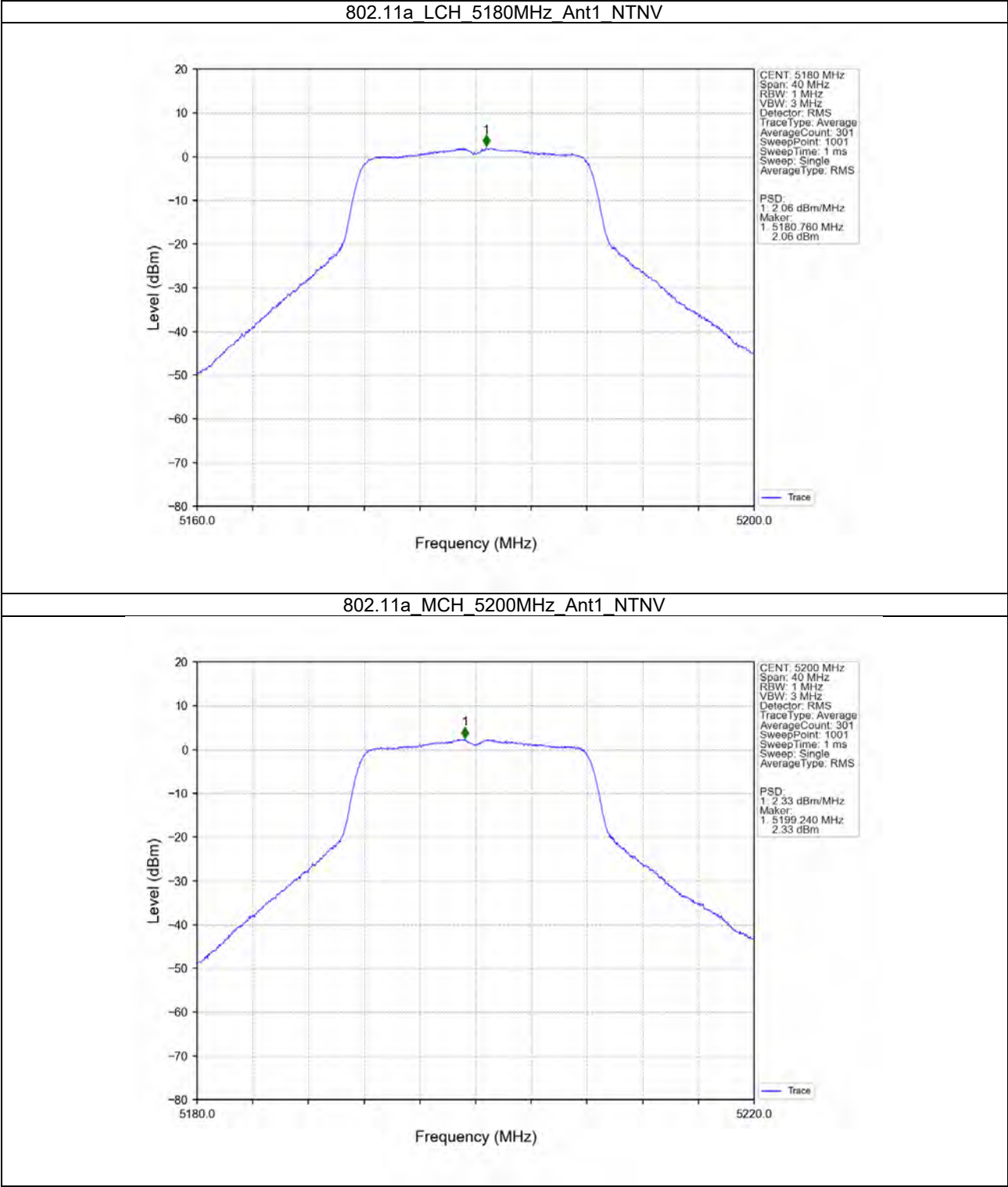


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 63 of 144

4.2 Test Graph

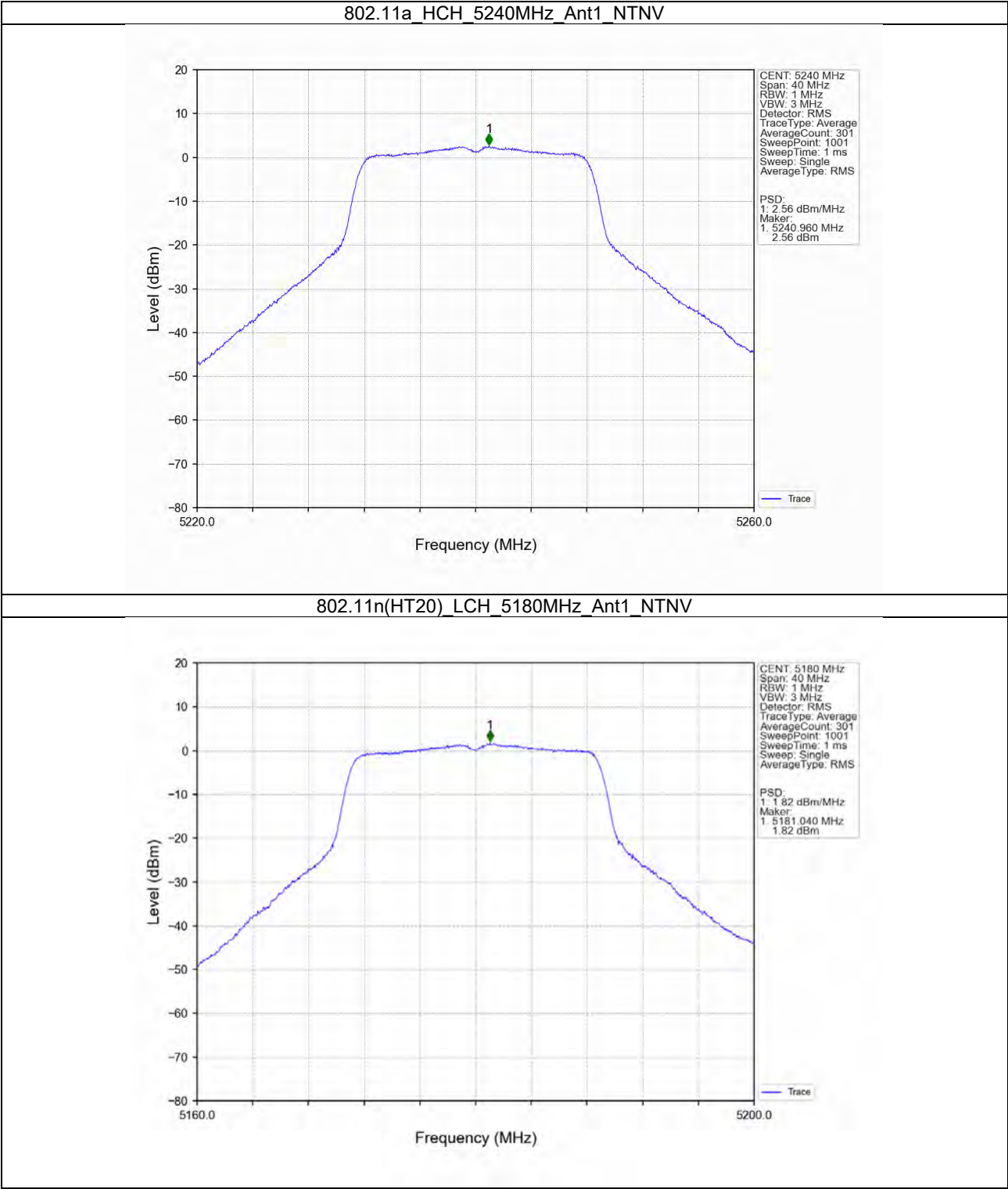
4.2.1 PSD





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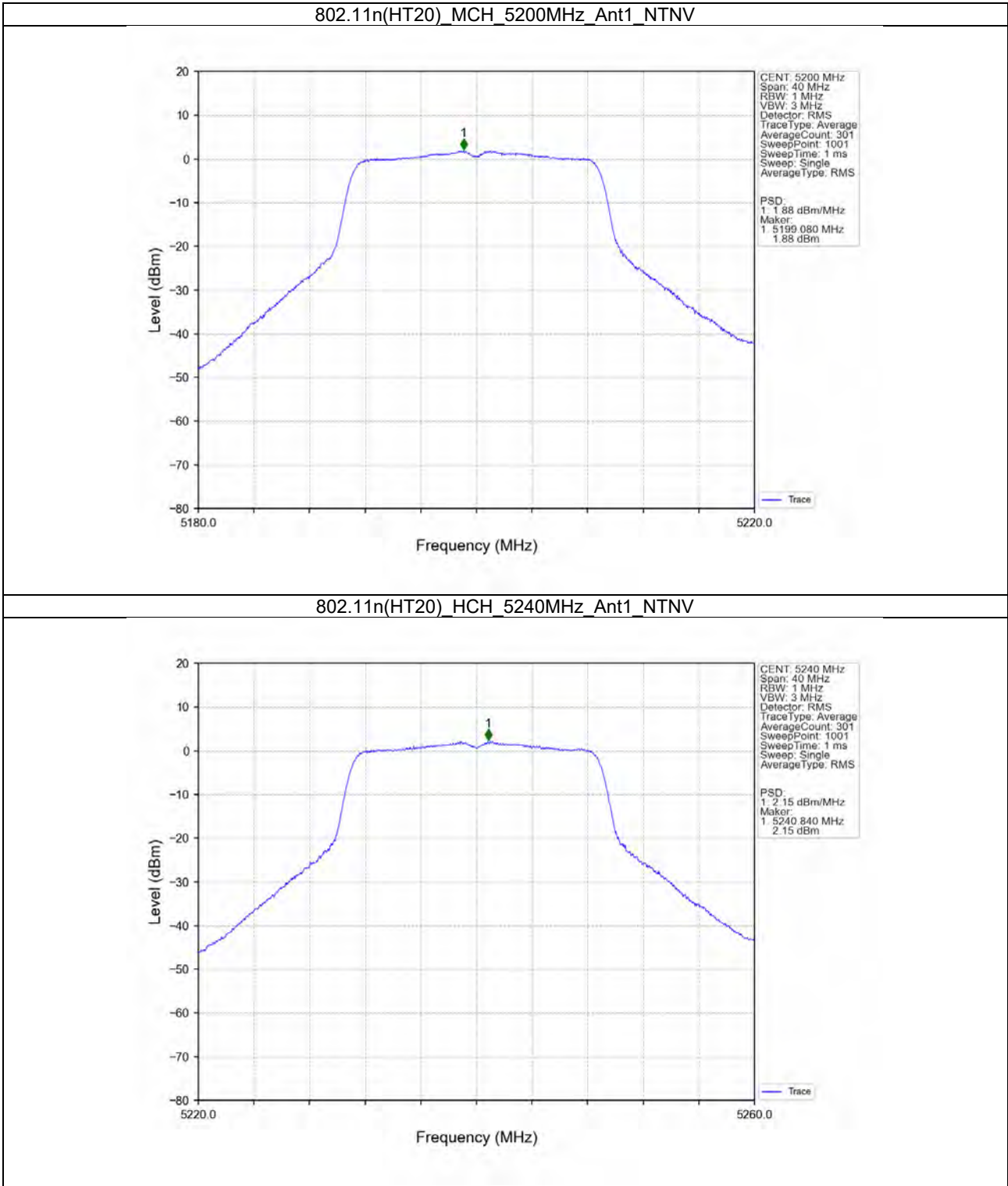
Report No.: SUCR250100001803
Rev.: 01
Page: 64 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

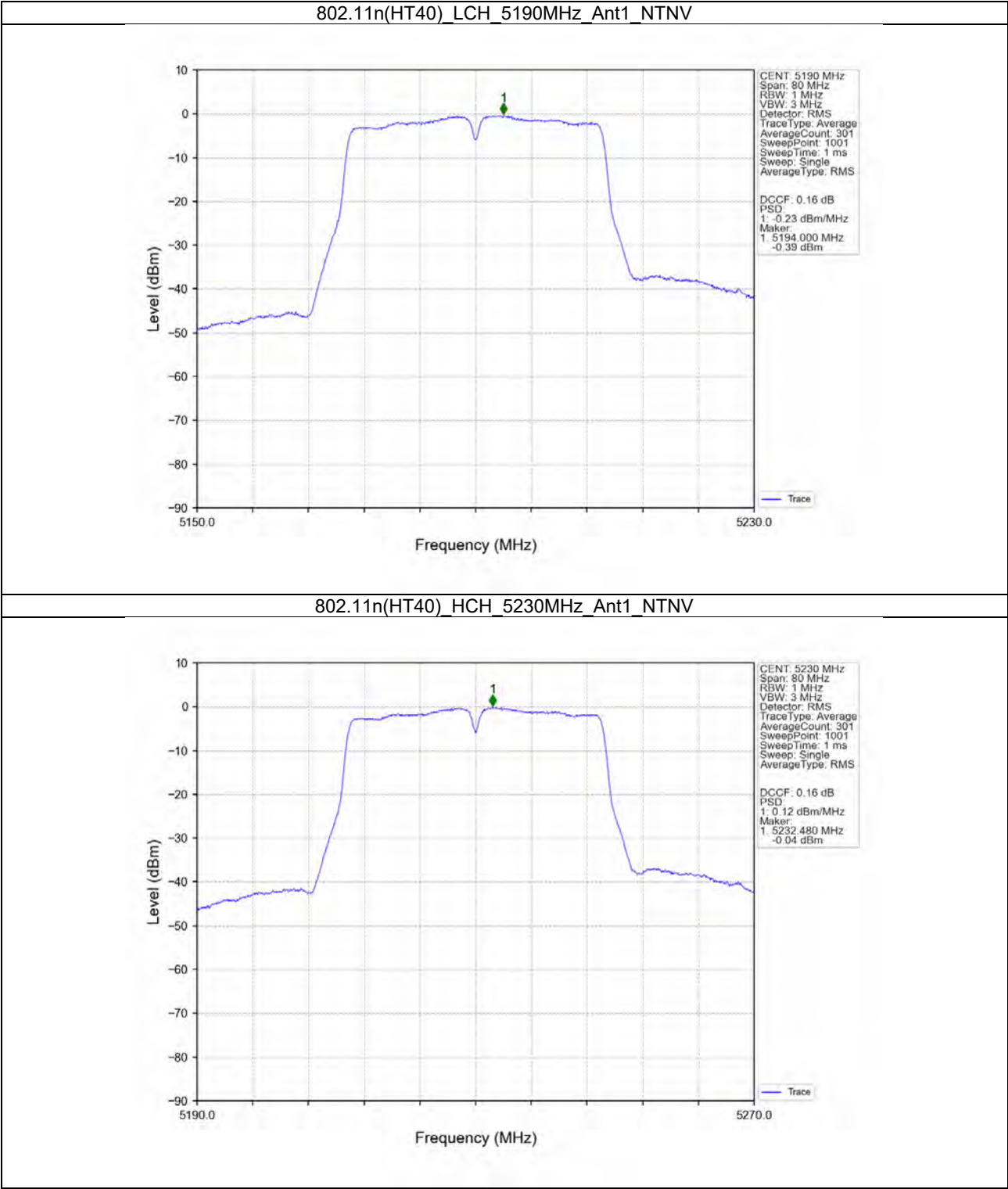
Report No.: SUCR250100001803
Rev.: 01
Page: 65 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

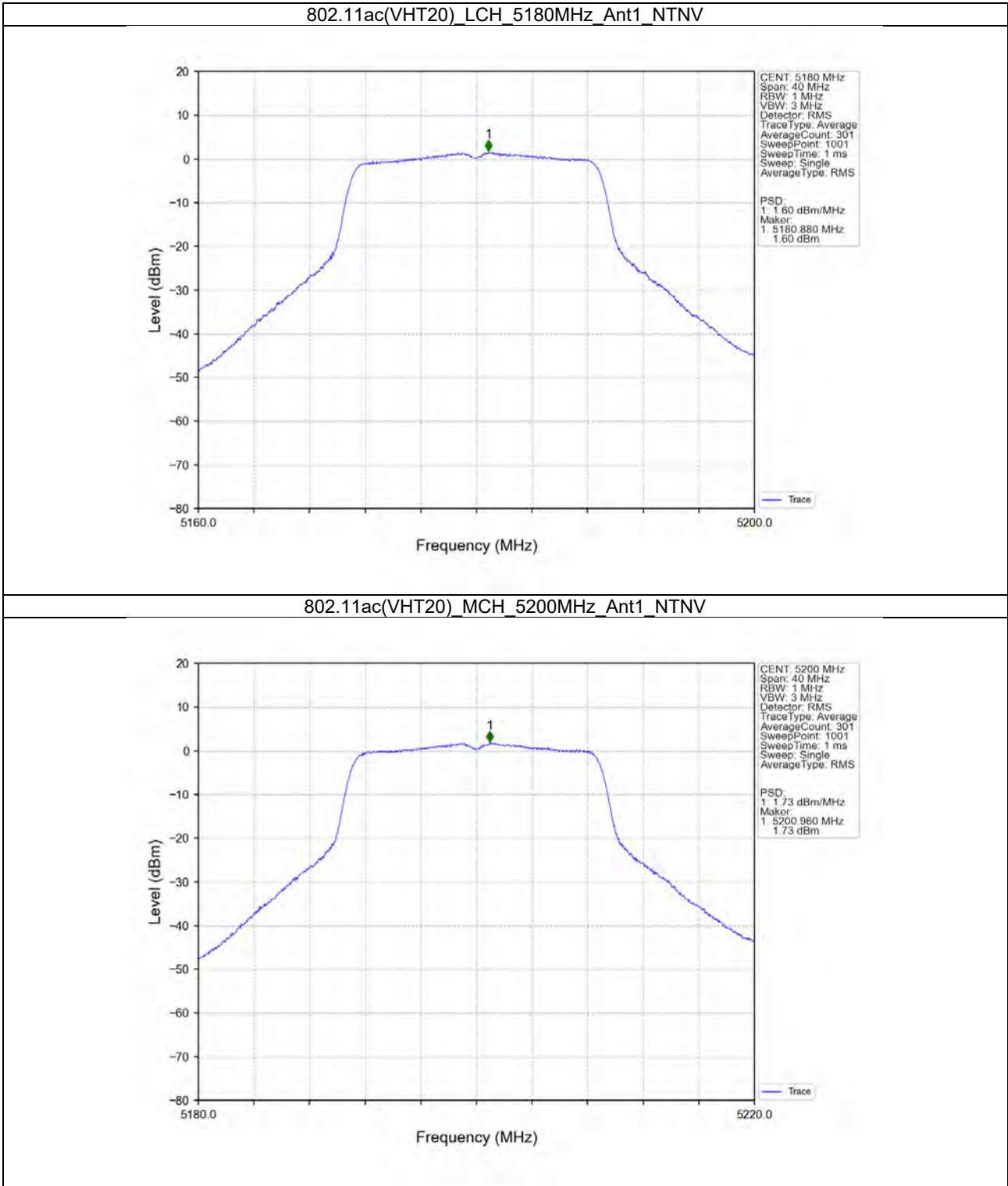
Report No.: SUCR250100001803
Rev.: 01
Page: 66 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

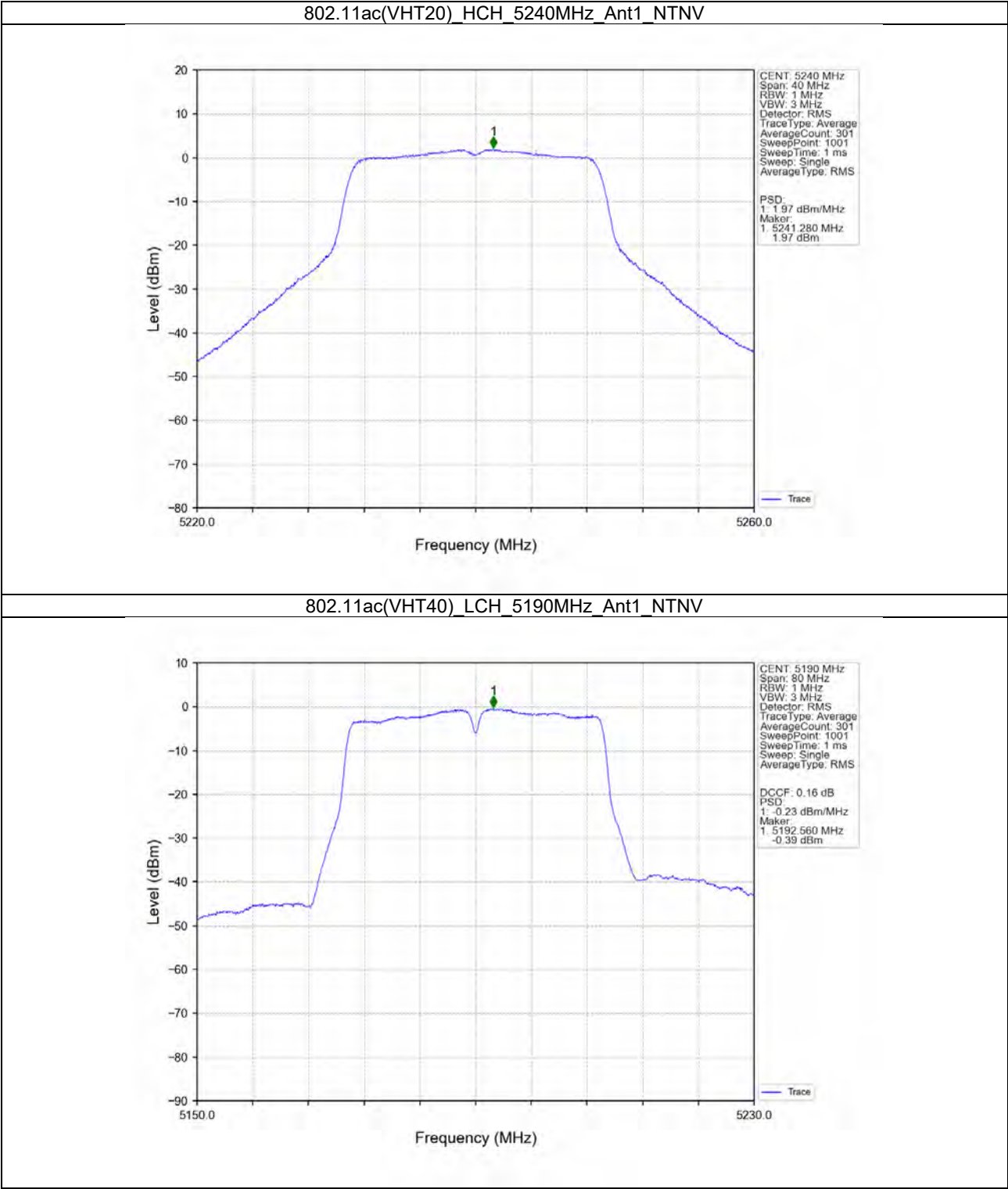
Report No.: SUCR250100001803
Rev.: 01
Page: 67 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

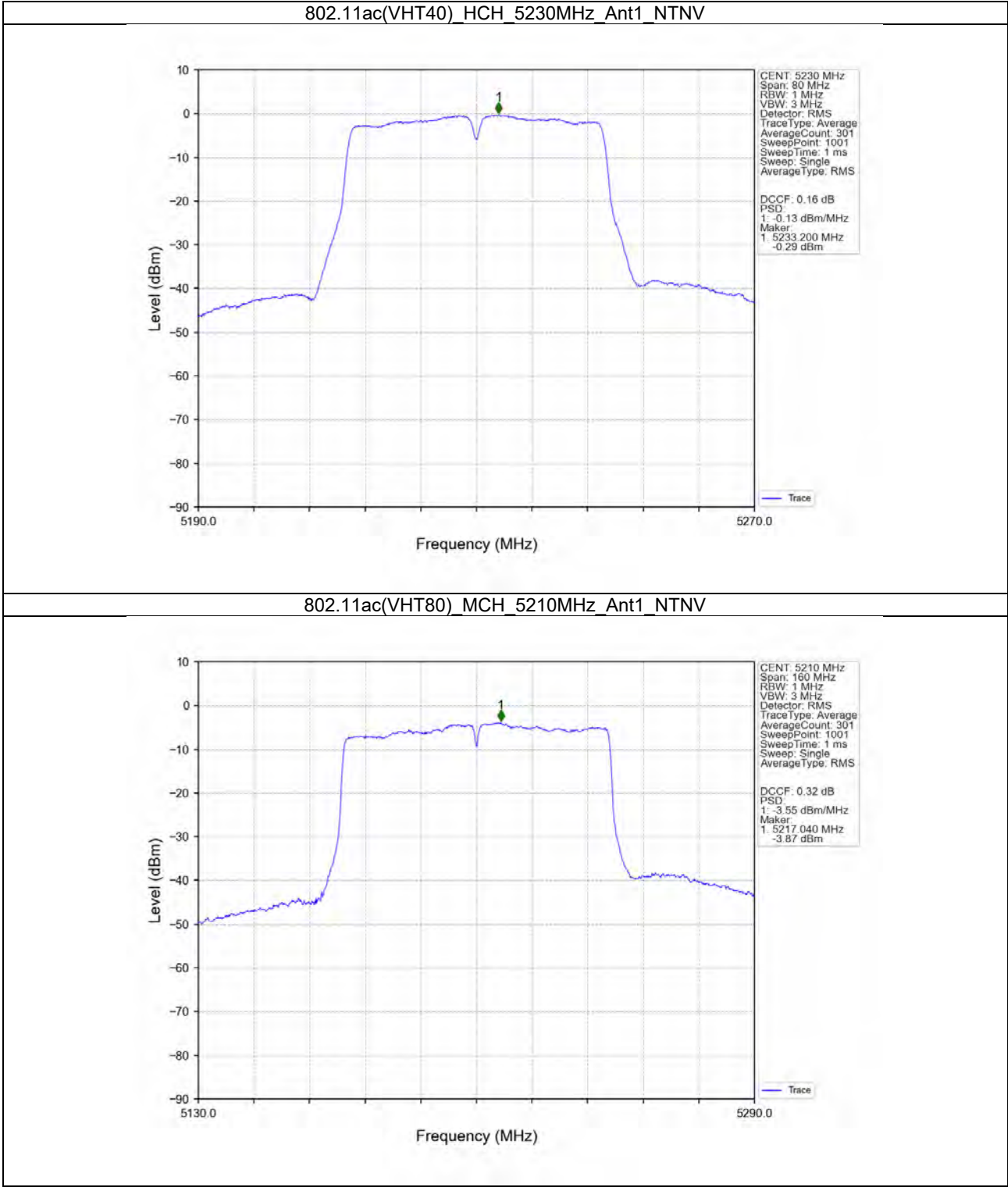
Report No.: SUCR250100001803
Rev.: 01
Page: 68 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 69 of 144

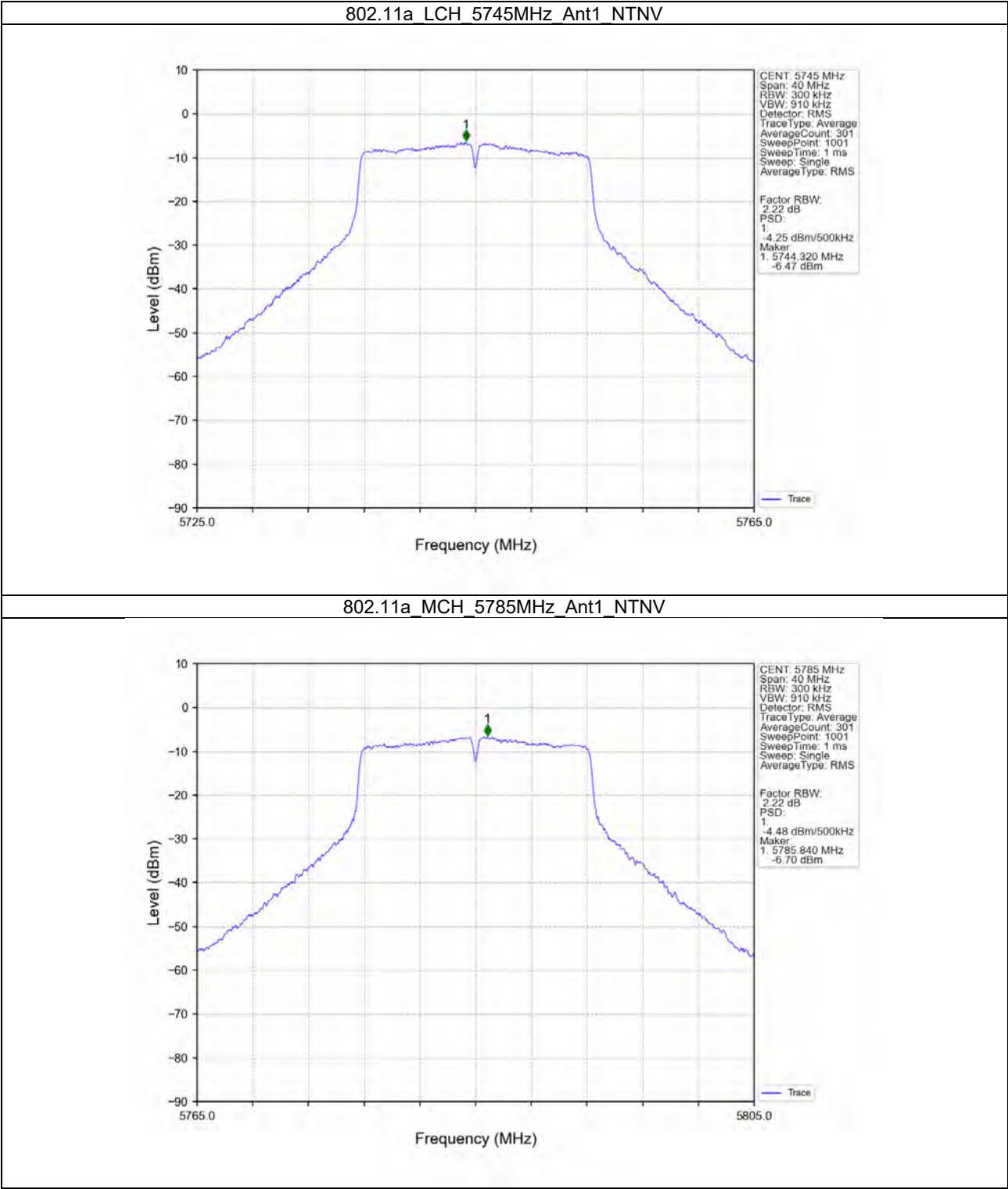




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 70 of 144

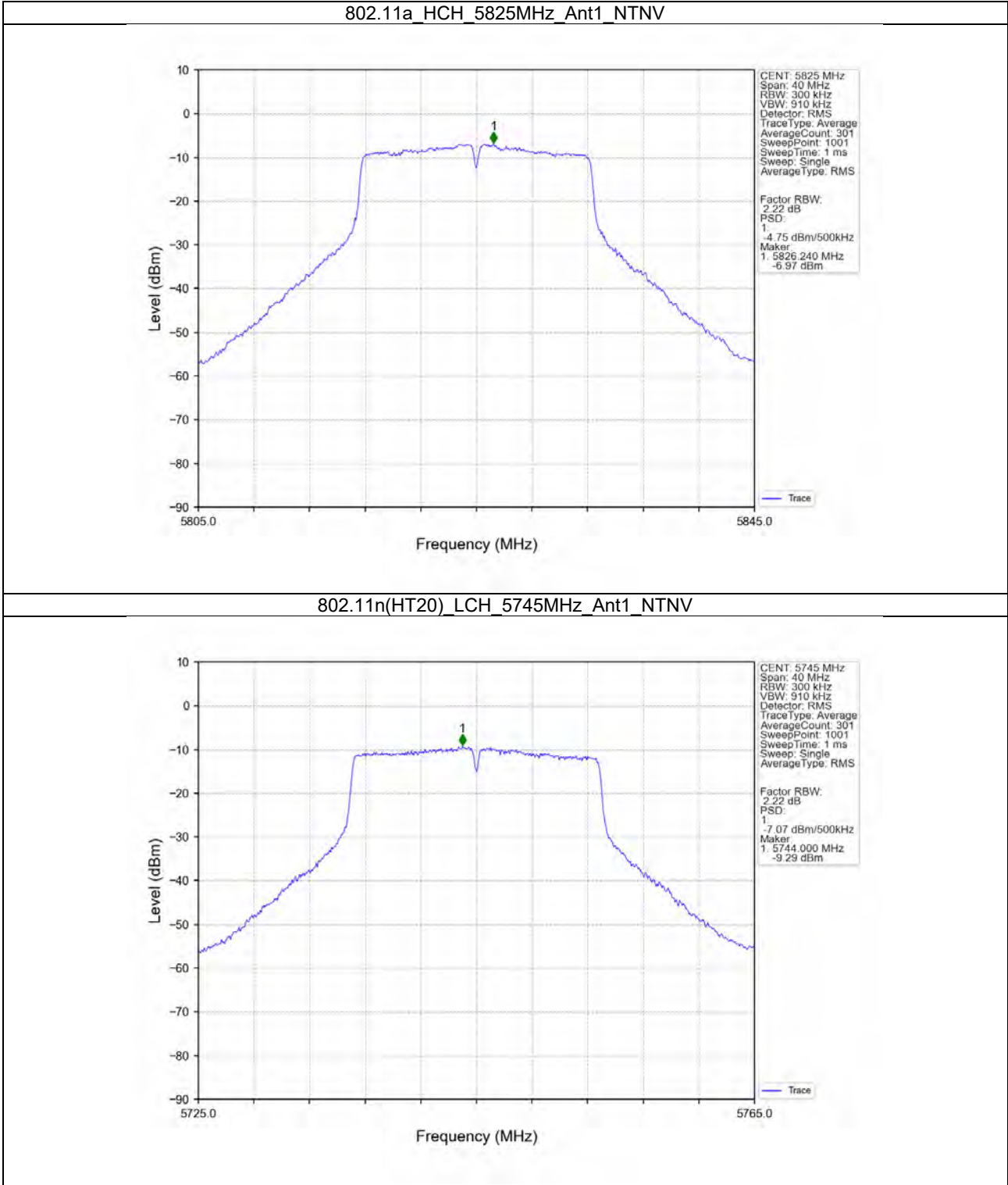
4.2.2 PSD-Band3





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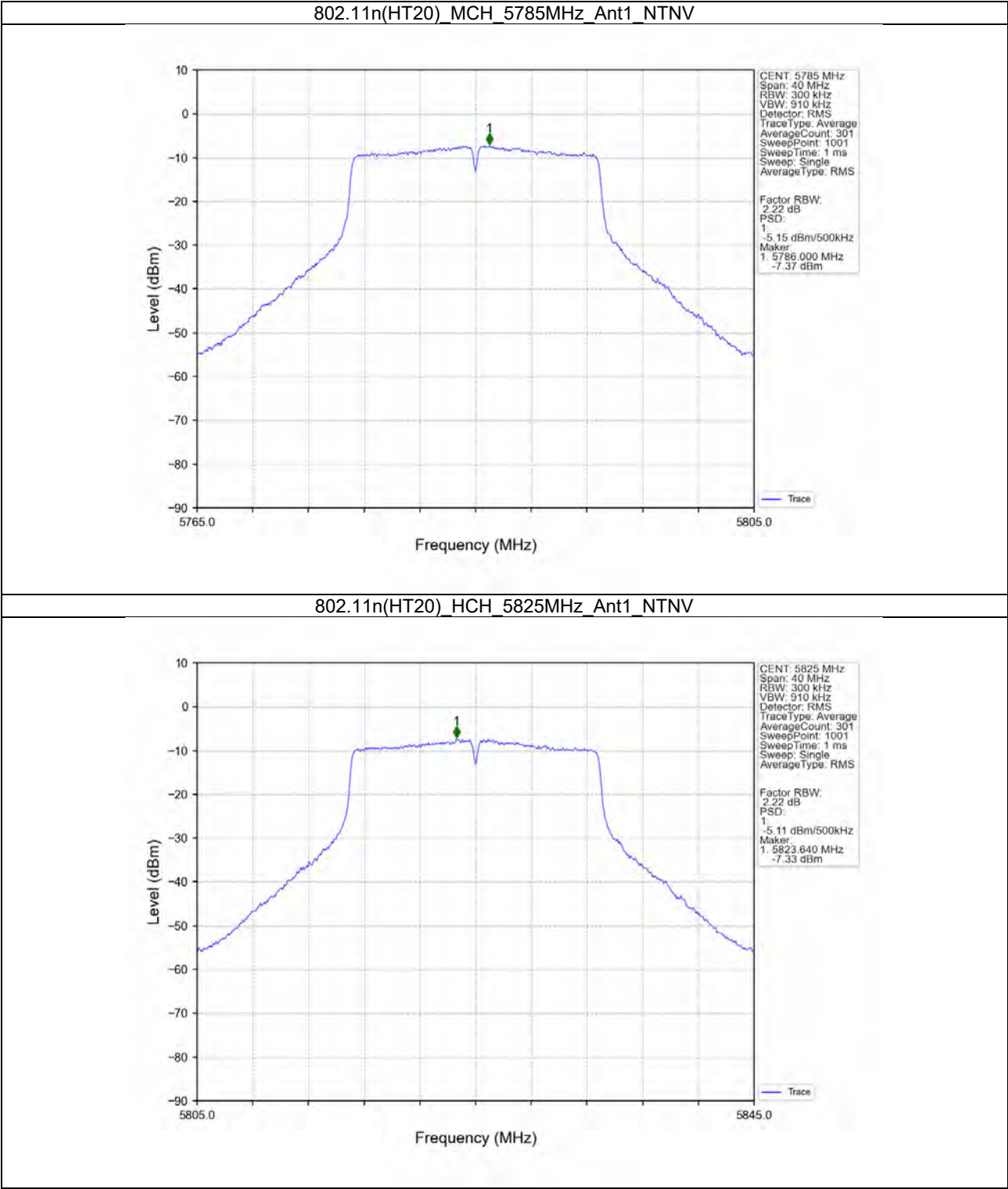
Report No.: SUCR250100001803
Rev.: 01
Page: 71 of 144





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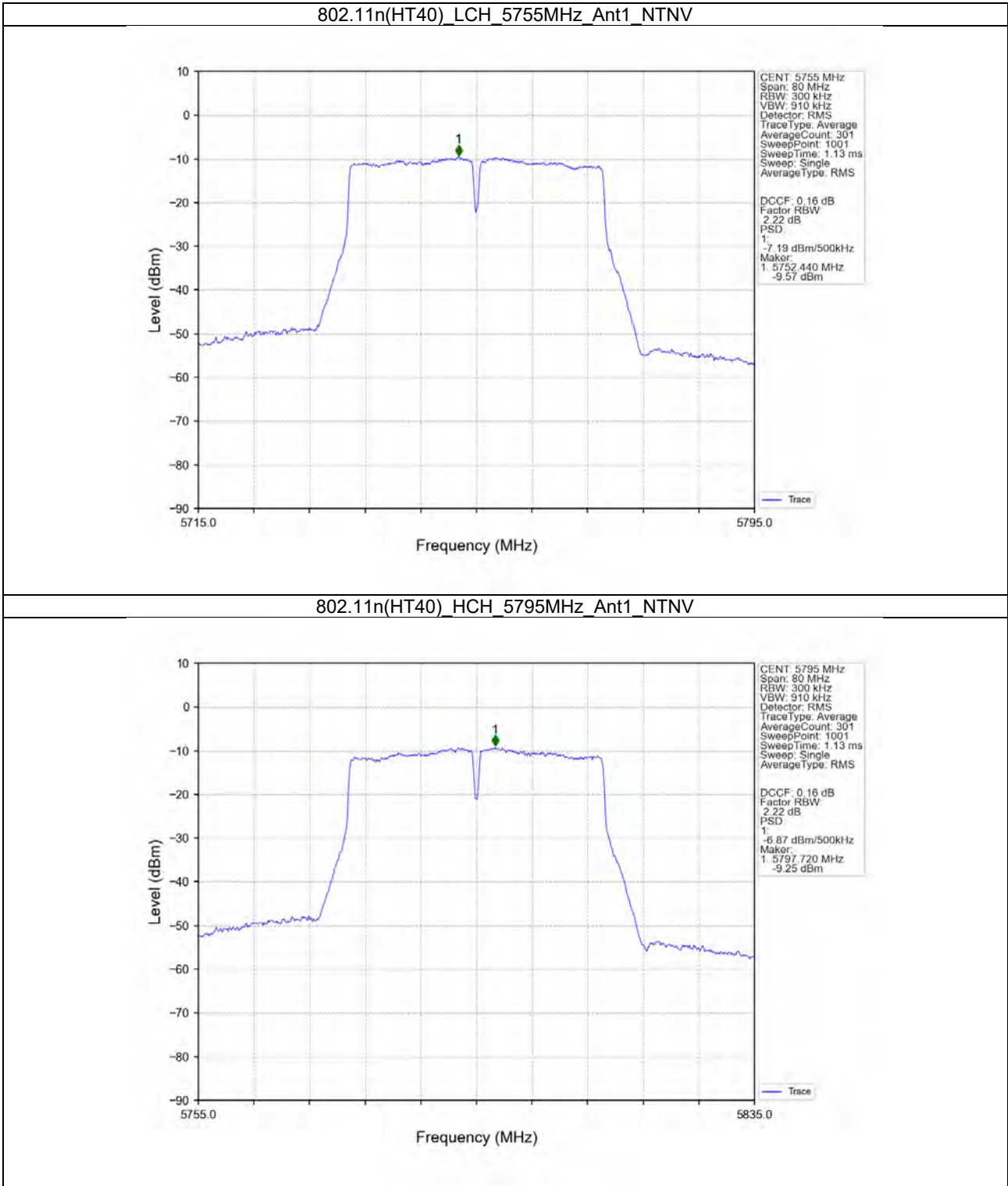
Report No.: SUCR250100001803
Rev.: 01
Page: 72 of 144





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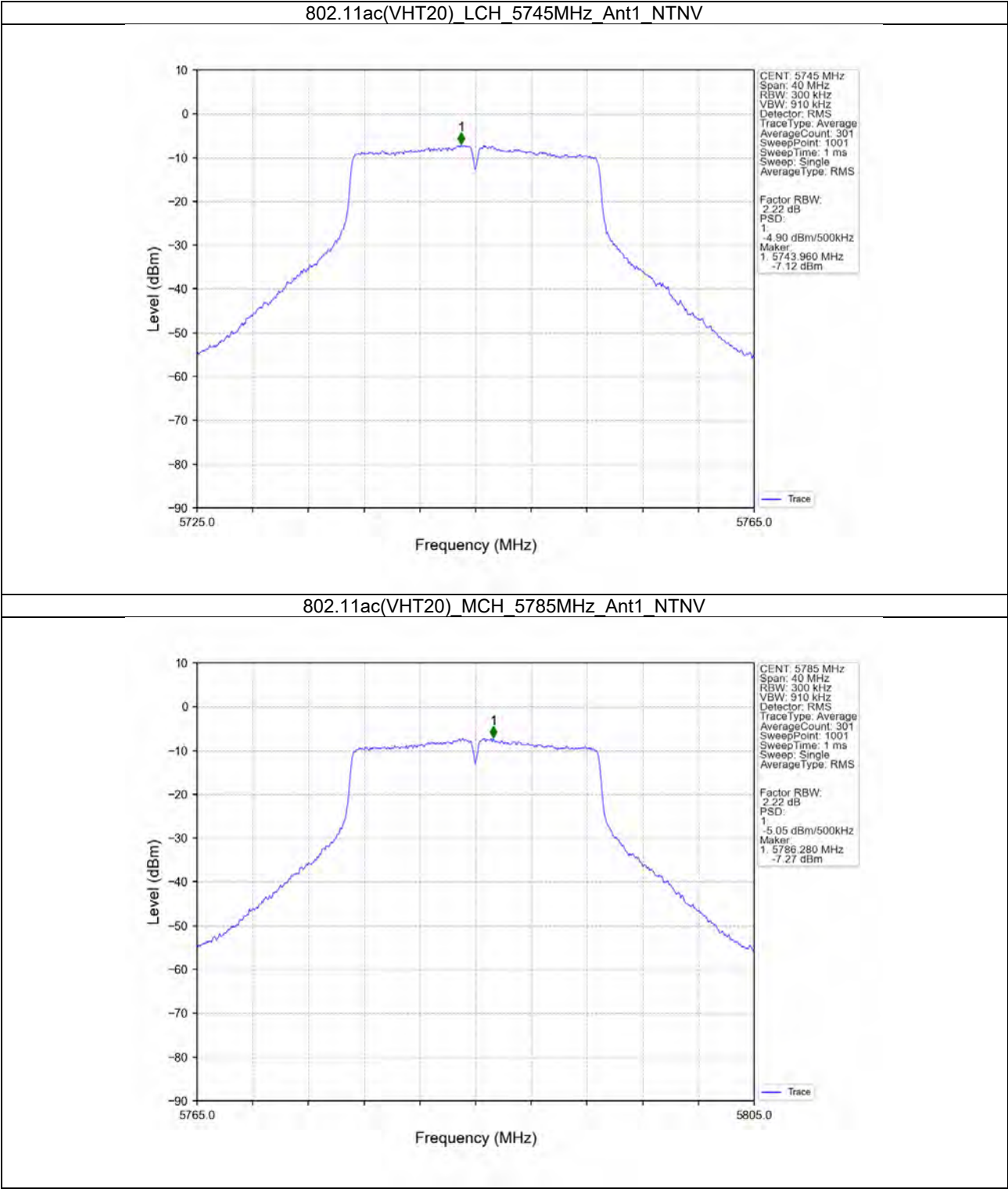
Report No.: SUCR250100001803
Rev.: 01
Page: 73 of 144





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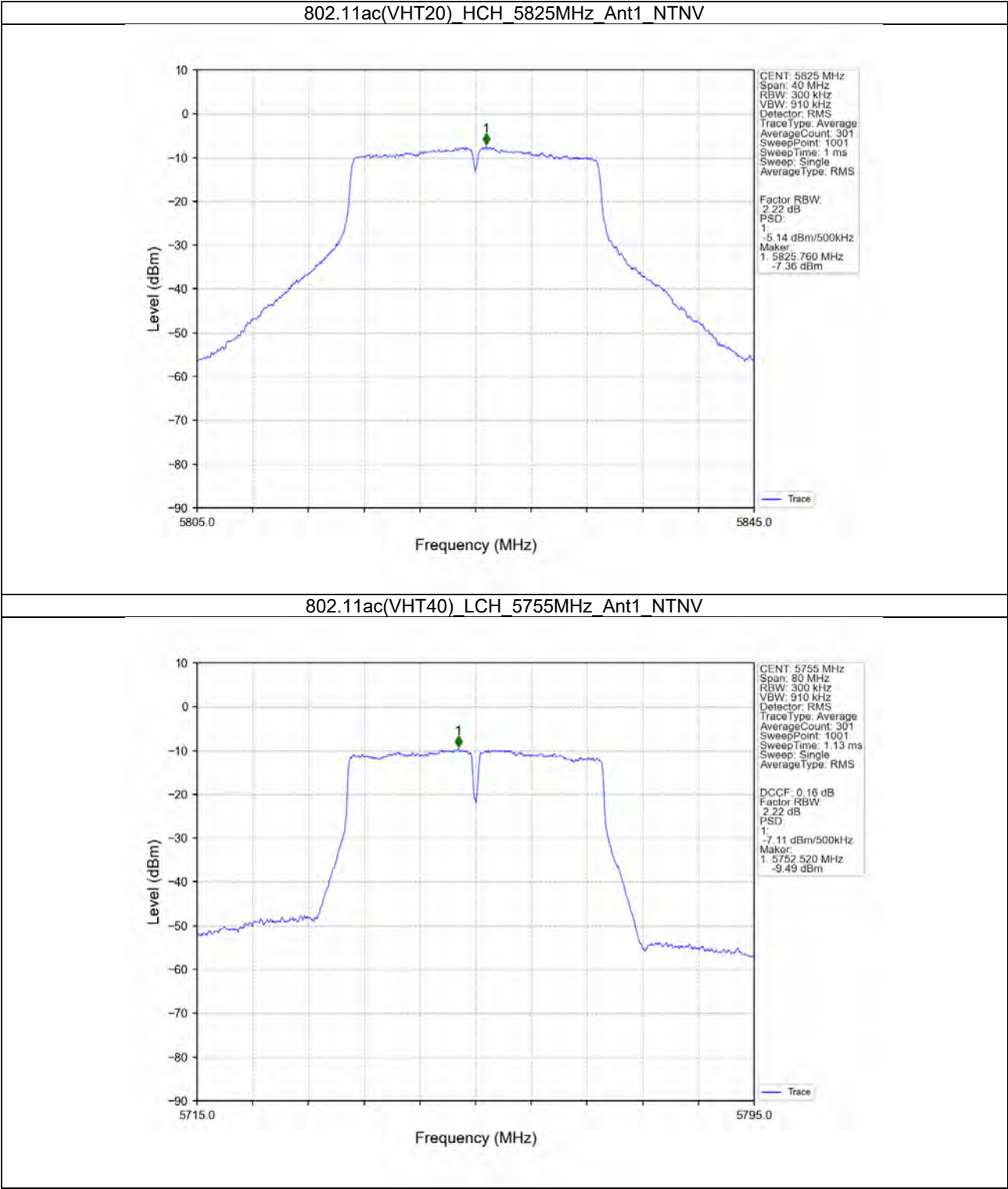
Report No.: SUCR250100001803
Rev.: 01
Page: 74 of 144





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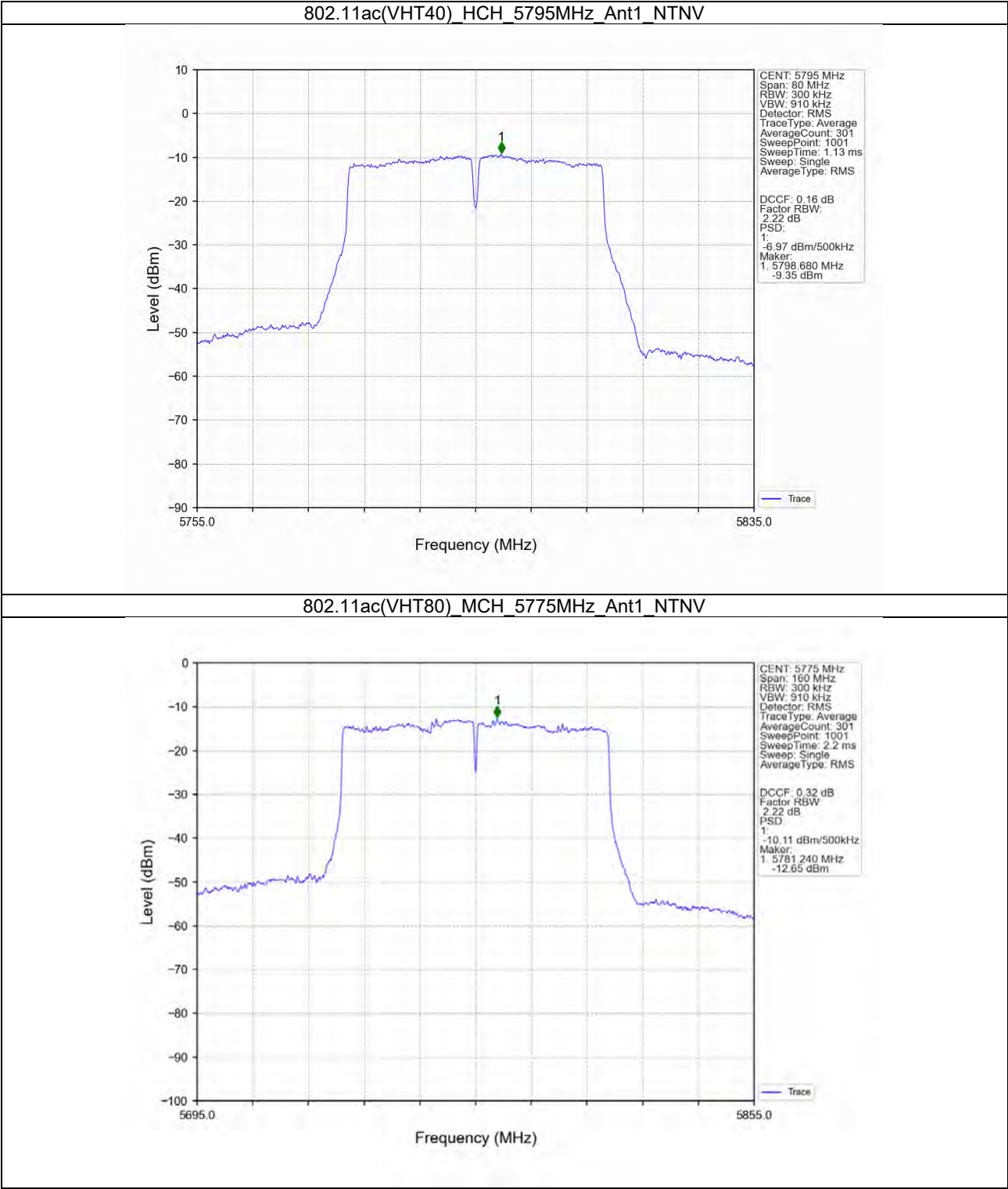
Report No.: SUCR250100001803
Rev.: 01
Page: 75 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 76 of 144





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

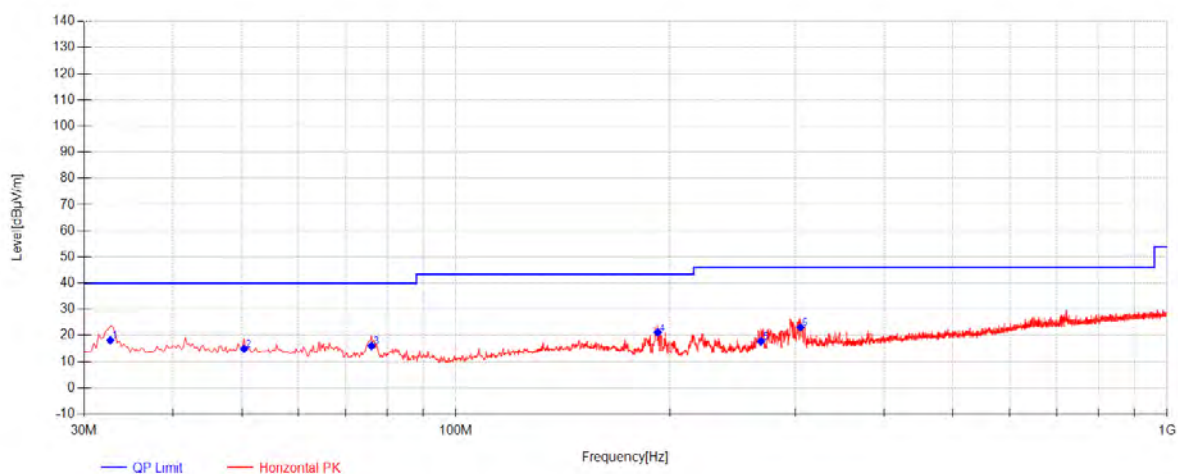
Rev.: 01

Page: 77 of 144

Radiated Spurious Emissions

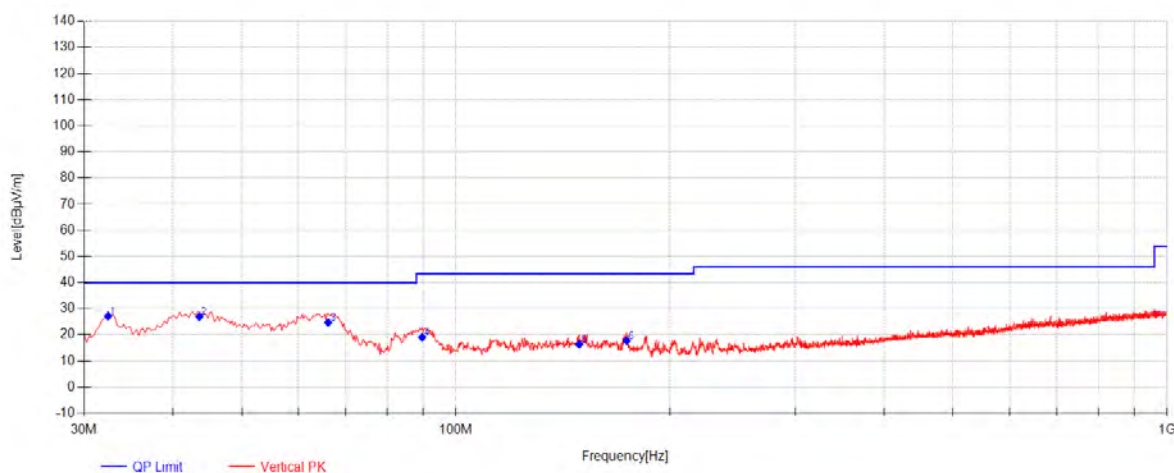
Radiated emission below 1GHz

Worst case Mode: 802.11a_Channel 44



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	32.6675	42.35	-42.29	18.10	18.16	40.00	21.84	Horizontal
2	50.37	38.52	-42.14	18.56	14.94	40.00	25.06	Horizontal
3	76.075	42.54	-41.71	15.22	16.05	40.00	23.95	Horizontal
4	192.2325	46.28	-40.59	15.43	21.12	43.50	22.38	Horizontal
5	268.62	40.29	-39.86	17.42	17.85	46.00	28.15	Horizontal
6	305.2375	44.38	-39.85	18.60	23.12	46.00	22.88	Horizontal



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	32.425	51.35	-42.29	18.10	27.16	40.00	12.84	Vertical
2	43.58	50.38	-42.20	18.80	26.98	40.00	13.02	Vertical
3	66.1325	49.38	-41.89	17.27	24.76	40.00	15.24	Vertical
4	89.655	45.86	-41.44	14.63	19.05	43.50	24.45	Vertical
5	149.0675	38.24	-40.75	18.91	16.41	43.50	27.09	Vertical
6	173.8025	40.26	-40.65	18.22	17.83	43.50	25.67	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB/m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB/m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V/m}) - \text{Value}(\text{dB}\mu\text{V/m})$$
- All channels have been tested, but only the worst case data displayed in this report.



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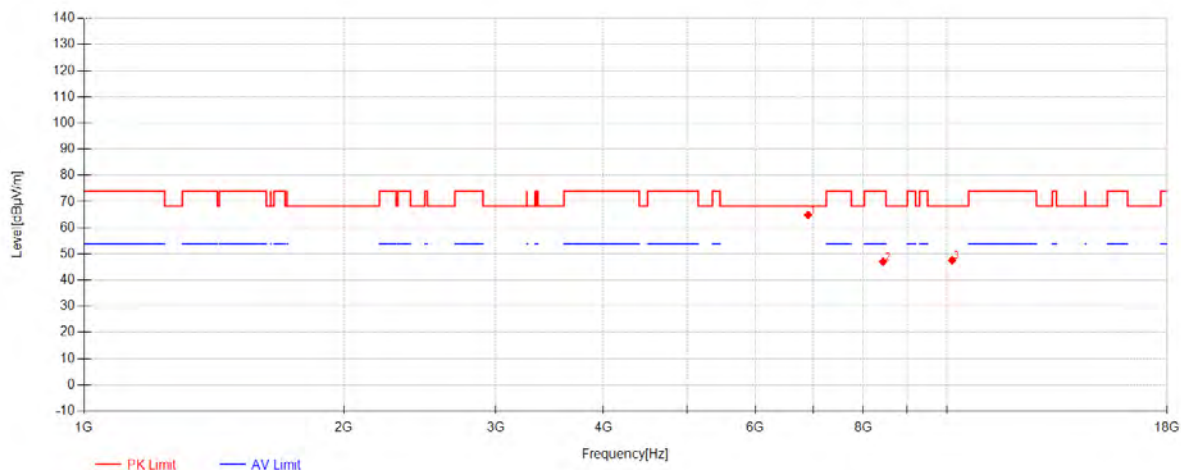
Report No.: SUCR250100001803

Rev.: 01

Page: 79 of 144

Transmitter emission Above 1GHz

802.11a_Channel 36



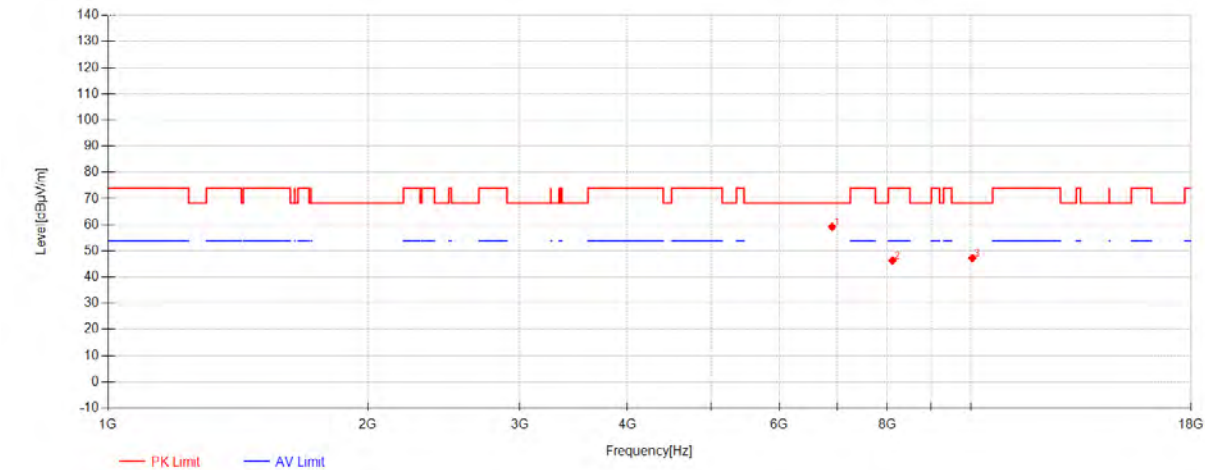
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.3333	73.96	34.83	-43.84	64.95	68.30	3.35	Horizontal
2	8434.3958	51.72	36.84	-41.52	47.04	74.00	26.96	Horizontal
3	10141.187	48.03	38.51	-38.94	47.61	68.30	20.69	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 80 of 144

802.11a_Channel 36



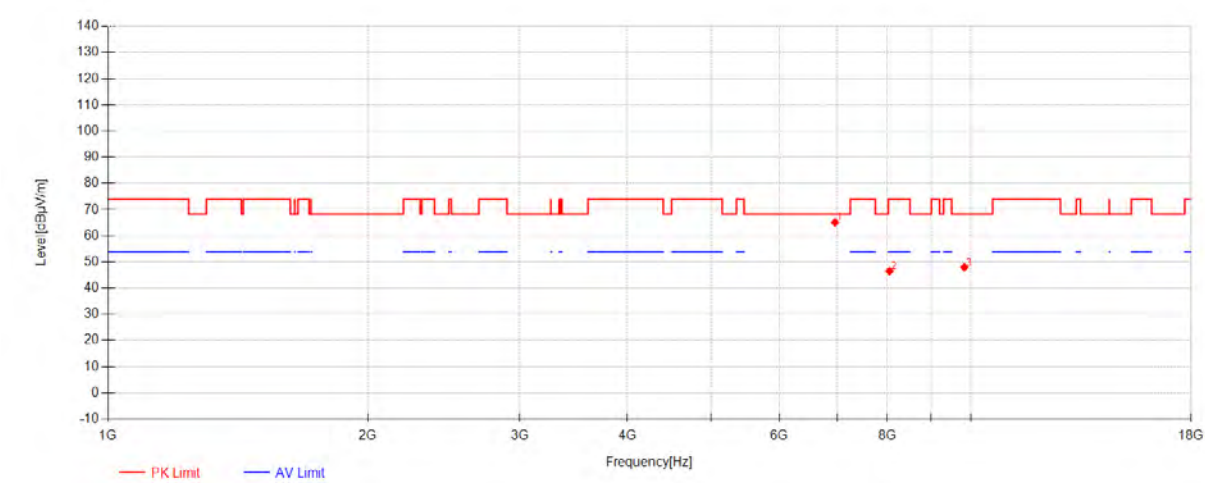
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1	6906.3333	68.17	34.83	-43.84	59.16	68.30	9.14	Vertical
2	8112.875	50.78	37.03	-41.44	46.37	74.00	27.63	Vertical
3	10039.604	47.89	38.50	-39.11	47.28	68.30	21.02	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 81 of 144

802.11a_Channel 44



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6959.5208	73.62	34.93	-43.36	65.19	68.30	3.11	Horizontal
2	8048.1875	51.20	37.07	-41.75	46.52	74.00	27.48	Horizontal
3	9828.7708	48.91	38.16	-39.10	47.97	68.30	20.33	Horizontal



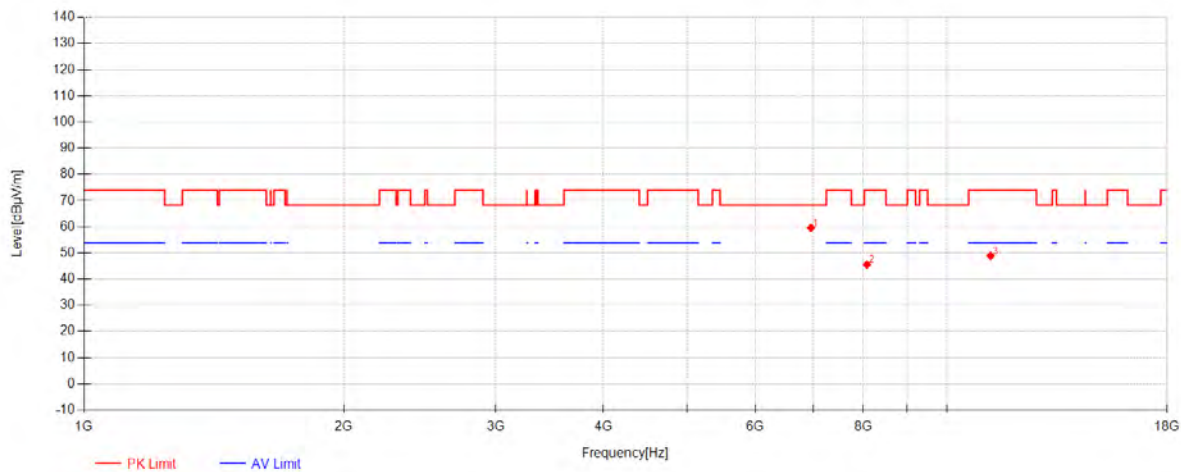
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 82 of 144

802.11a_Channel 44



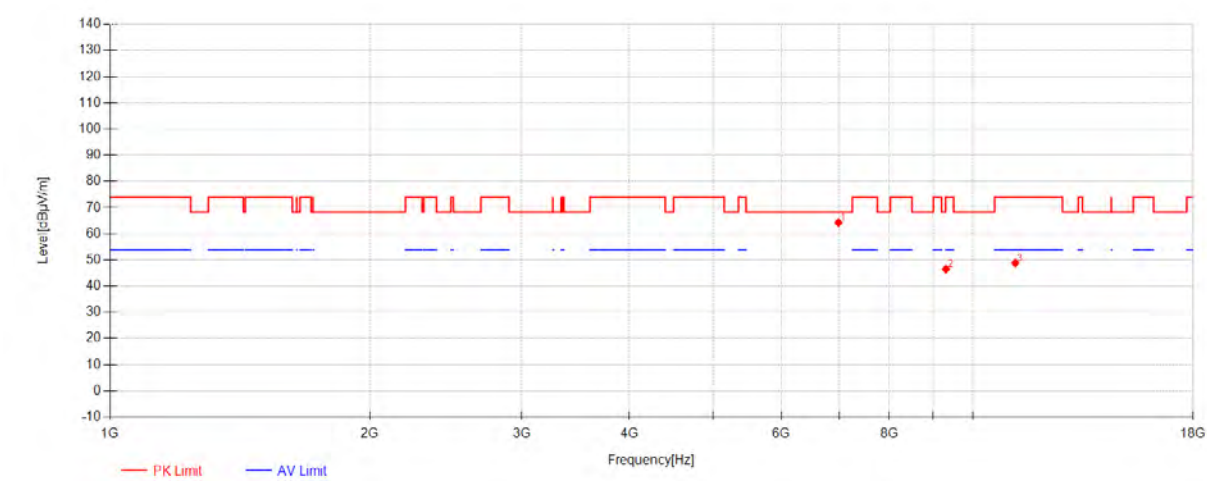
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1	6959.5208	68.04	34.93	-43.36	59.61	68.30	8.69	Vertical
2	8079.3333	50.04	37.05	-41.50	45.59	74.00	28.41	Vertical
3	11240.395	47.01	38.72	-36.85	48.88	74.00	25.12	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 83 of 144

802.11a_Channel 48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.3542	72.48	34.98	-43.11	64.34	68.30	3.96	Horizontal
2	9305.0417	49.46	37.11	-40.06	46.51	74.00	27.49	Horizontal
3	11199.1875	46.70	38.70	-36.61	48.79	74.00	25.21	Horizontal



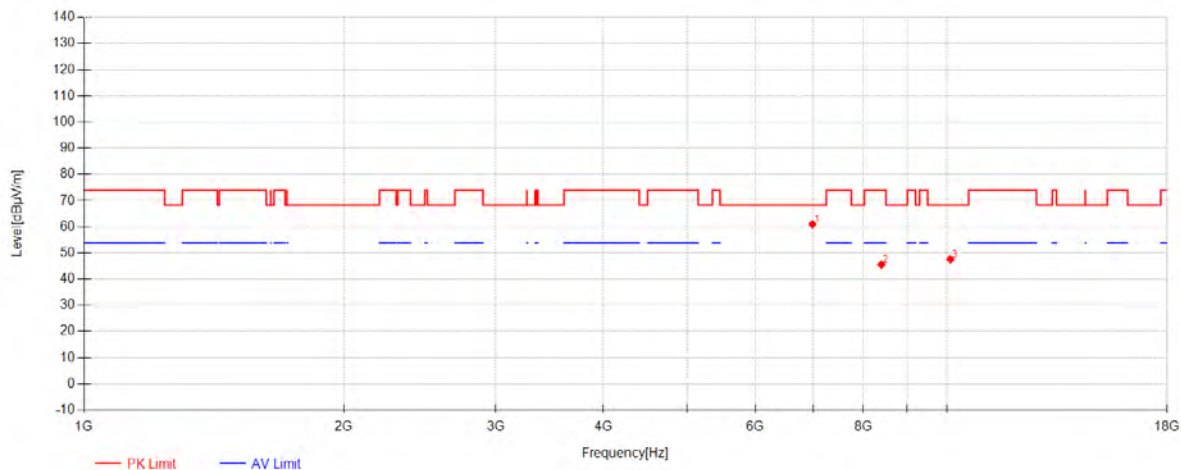
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 84 of 144

802.11a_Channel 48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.3542	69.06	34.98	-43.11	60.92	68.30	7.38	Vertical
2	8396.5417	50.15	36.86	-41.39	45.62	74.00	28.38	Vertical
3	10093.270	47.84	38.51	-38.75	47.60	68.30	20.70	Vertical



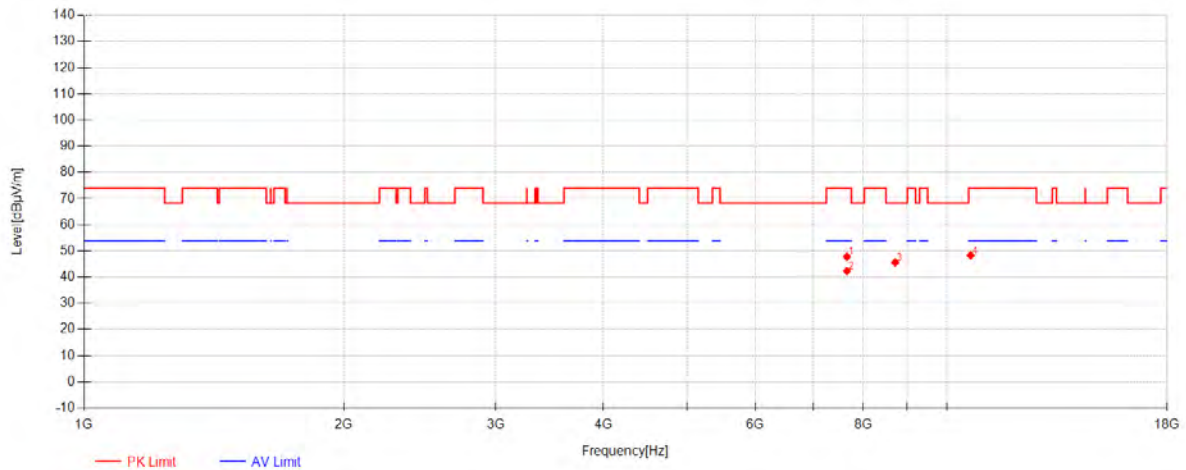
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 85 of 144

802.11a_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7659.5833	54.03	36.62	-42.87	47.79	74.00	26.21	Horizontal
2	7659.5833	48.58	36.62	-42.87	42.34	54.00	11.66	Horizontal
3	8711.3542	50.31	36.67	-41.32	45.67	68.30	22.63	Horizontal
4	10655.812	47.47	38.57	-37.72	48.32	74.00	25.68	Horizontal



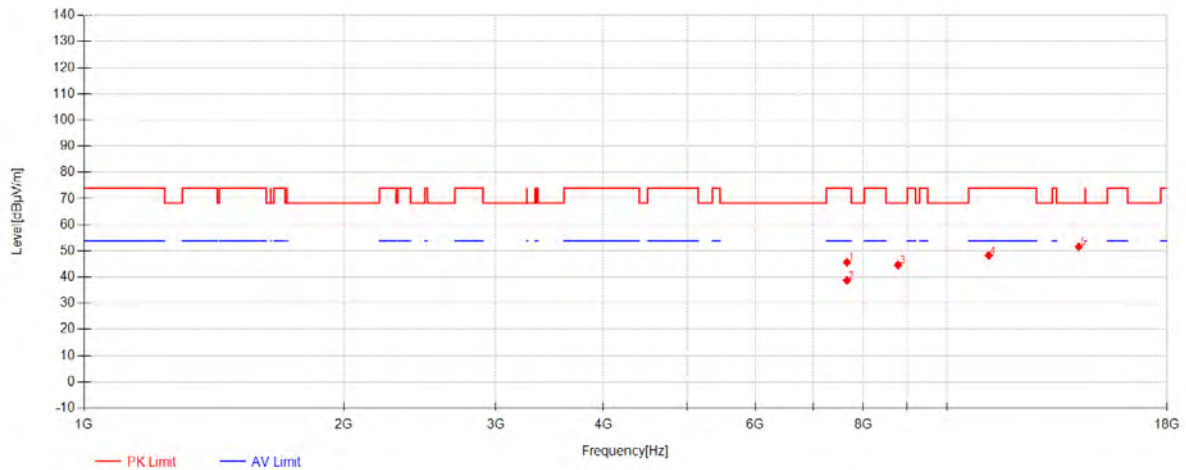
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 86 of 144

802.11a_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7659.5833	51.98	36.62	-42.87	45.74	74.00	28.26	Vertical
2	7659.5833	44.97	36.62	-42.87	38.73	54.00	15.27	Vertical
3	8779.875	49.26	36.63	-41.18	44.71	68.30	23.59	Vertical
4	11186.7292	46.36	38.69	-36.75	48.30	74.00	25.70	Vertical
5	14219.375	46.08	40.98	-35.42	51.64	68.30	16.66	Vertical



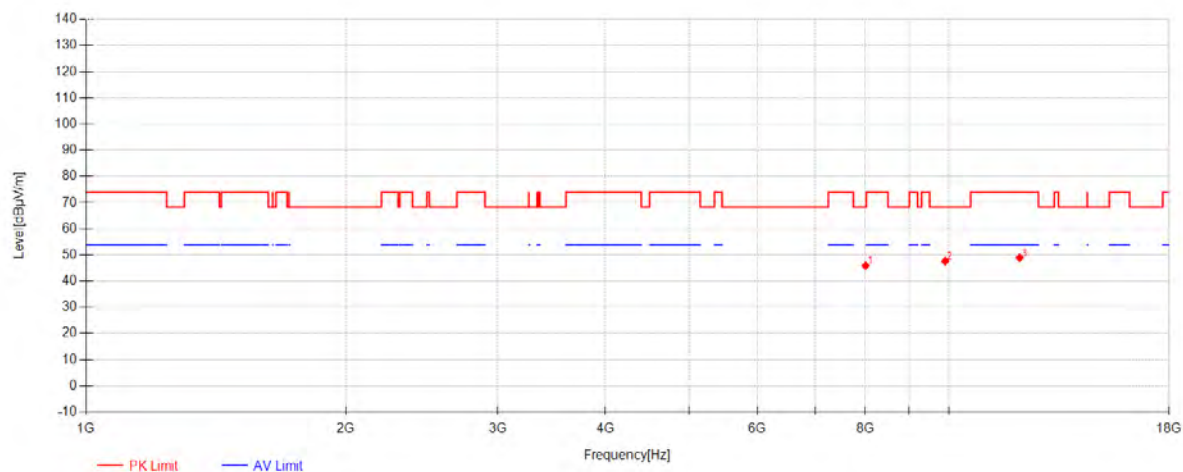
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 87 of 144

802.11a_Channel 157



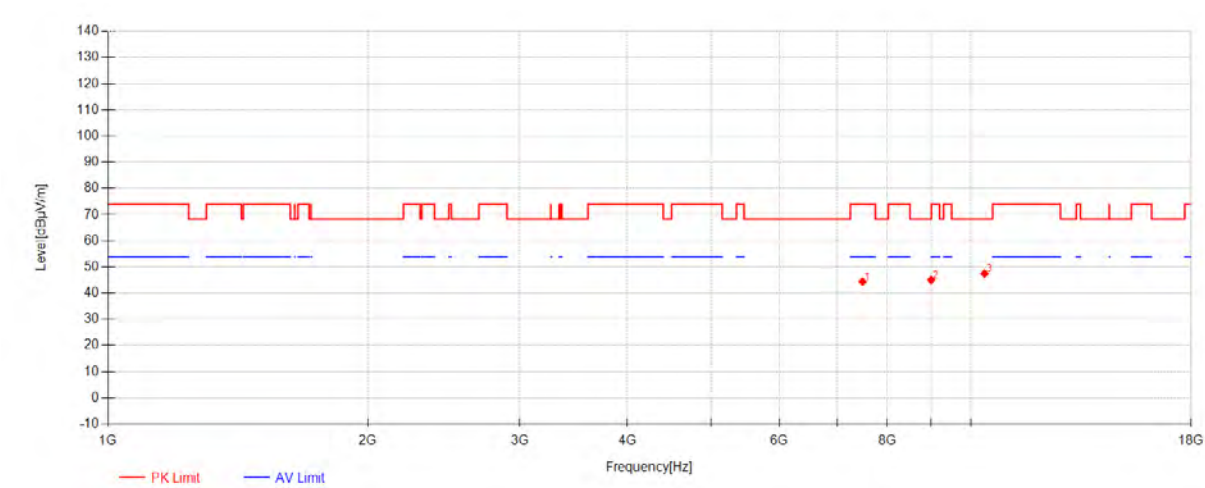
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1	8007.9375	50.89	37.10	-42.07	45.92	68.30	22.38	Horizontal
2	9903.0417	48.57	38.31	-39.21	47.67	68.30	20.63	Horizontal
3	12078.458	46.98	39.12	-37.19	48.92	74.00	25.08	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 88 of 144

802.11a_Channel 157



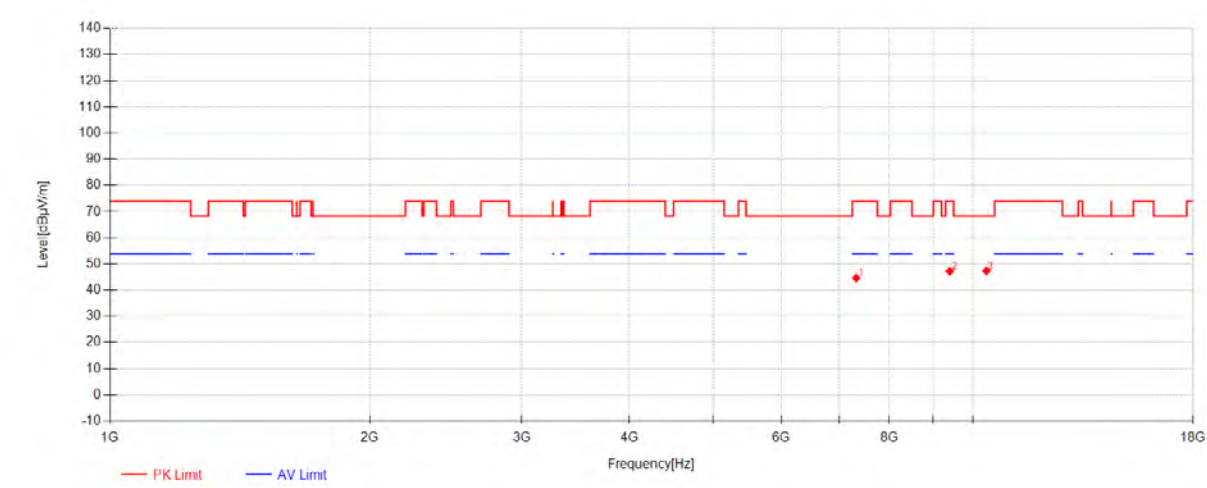
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1	7489.9583	51.22	36.37	-43.13	44.46	74.00	29.54	Vertical
2	8997.4167	49.44	36.50	-40.87	45.07	68.30	23.23	Vertical
3	10371.666	47.75	38.54	-38.79	47.50	68.30	20.80	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 89 of 144

802.11a_Channel 165



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7326.0833	52.00	35.91	-43.19	44.72	74.00	29.28	Horizontal
2	9401.8333	49.83	37.30	-39.92	47.21	74.00	26.79	Horizontal
3	10367.354	47.62	38.54	-38.80	47.36	68.30	20.94	Horizontal



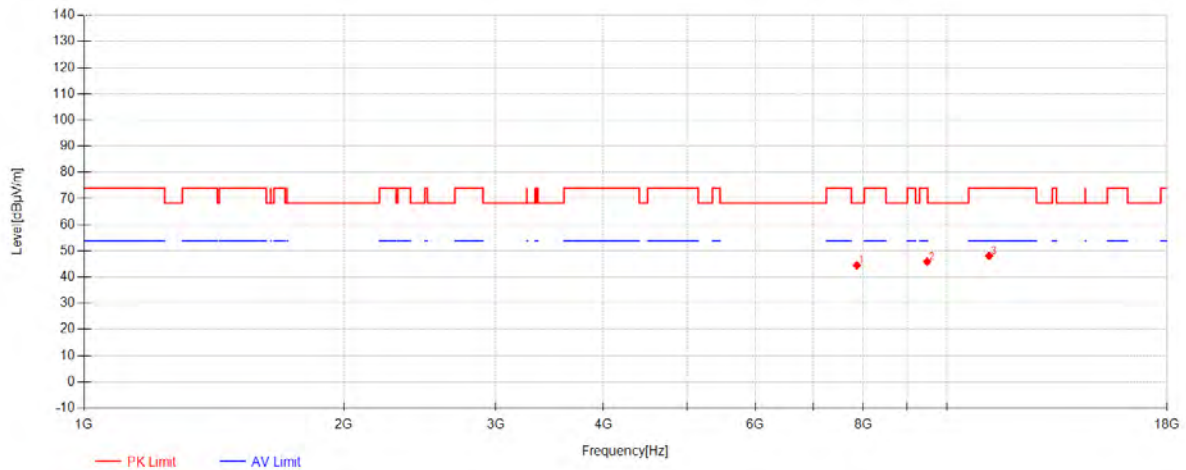
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 90 of 144

802.11a_Channel 165



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7865.1458	50.36	36.91	-42.68	44.59	68.30	23.71	Vertical
2	9488.5625	48.43	37.48	-39.96	45.95	74.00	28.05	Vertical
3	11193.9167	46.08	38.70	-36.67	48.11	74.00	25.89	Vertical



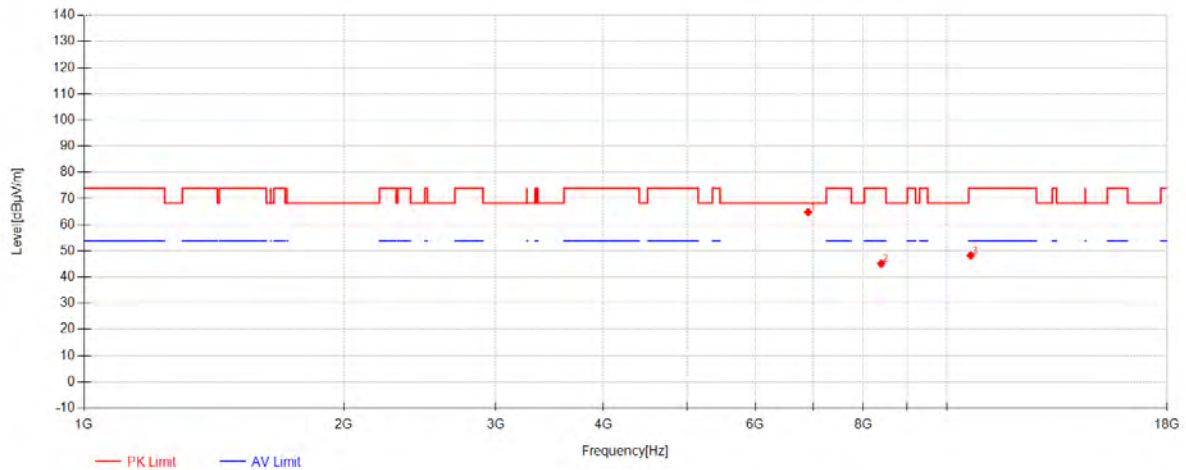
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 91 of 144

802.11ac20_Channel 36



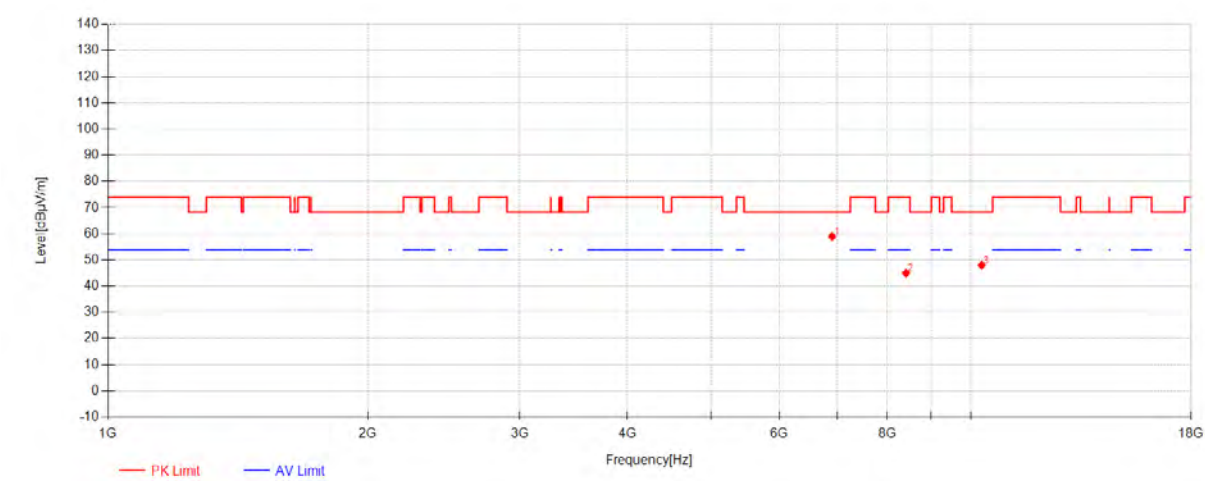
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.3333	73.88	34.83	-43.84	64.87	68.30	3.43	Horizontal
2	8392.2292	49.74	36.86	-41.41	45.20	74.00	28.80	Horizontal
3	10654.854	47.43	38.57	-37.72	48.27	74.00	25.73	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 92 of 144

802.11ac20_Channel 36



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.3333	67.95	34.83	-43.84	58.94	68.30	9.36	Vertical
2	8411.3958	49.57	36.85	-41.42	45.00	74.00	29.00	Vertical
3	10293.562	48.43	38.53	-38.99	47.97	68.30	20.33	Vertical



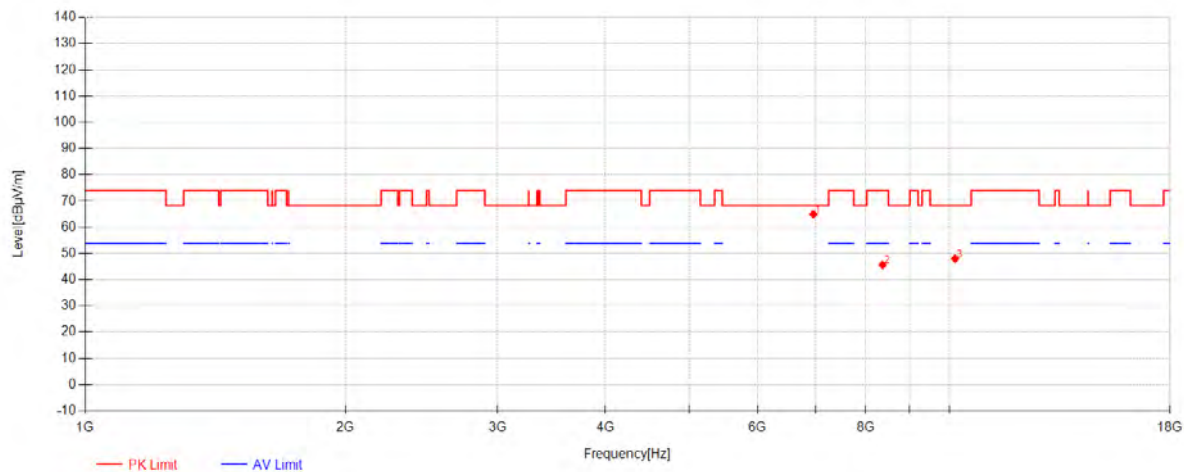
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 93 of 144

802.11ac20_Channel 44



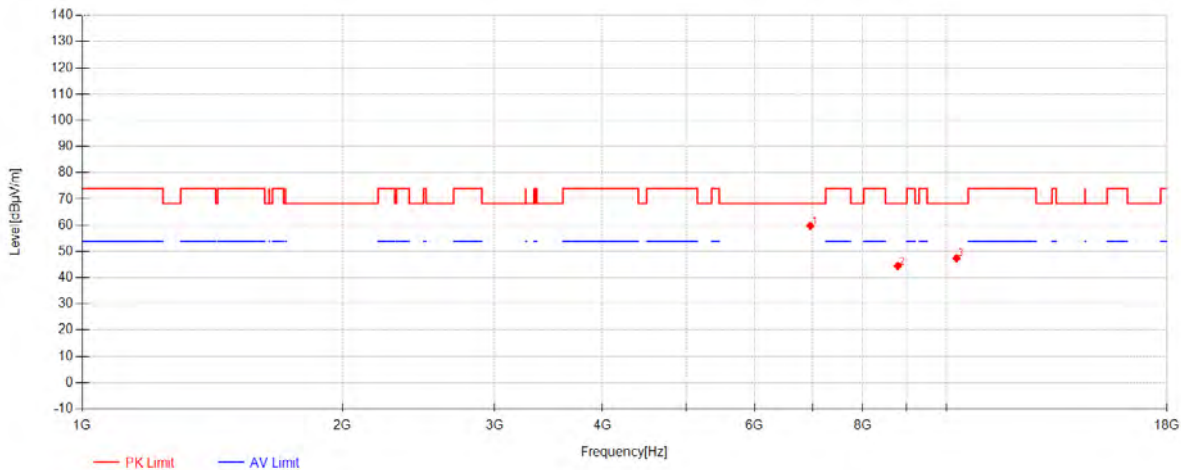
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6959.5208	73.45	34.93	-43.36	65.02	68.30	3.28	Horizontal
2	8368.2708	50.35	36.88	-41.53	45.70	74.00	28.30	Horizontal
3	10153.166	48.48	38.52	-39.01	47.99	68.30	20.31	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 94 of 144

802.11ac20_Channel 44



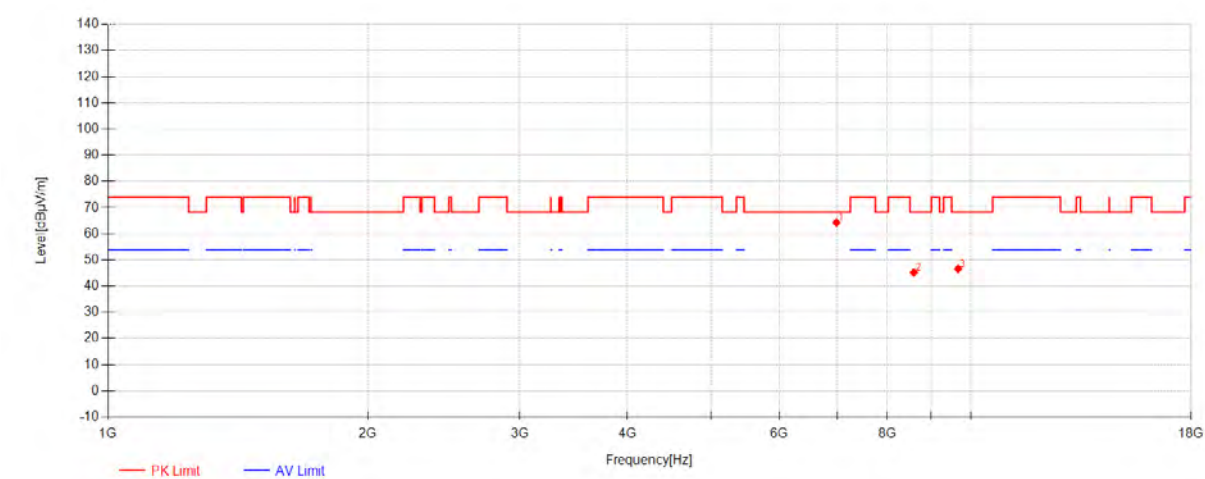
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6959.5208	68.18	34.93	-43.36	59.75	68.30	8.55	Vertical
2	8786.1042	49.08	36.63	-41.17	44.54	68.30	23.76	Vertical
3	10273.916	47.98	38.53	-39.05	47.46	68.30	20.84	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 95 of 144

802.11ac20_Channel 48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.3542	72.50	34.98	-43.11	64.36	68.30	3.94	Horizontal
2	8588.2083	49.49	36.75	-41.00	45.24	68.30	23.06	Horizontal
3	9666.3333	48.21	37.83	-39.39	46.66	68.30	21.64	Horizontal



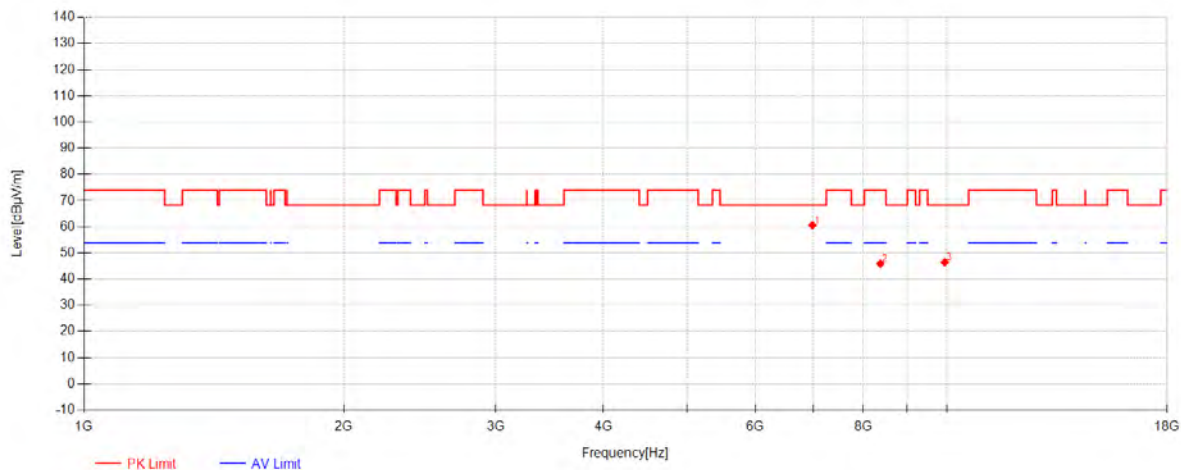
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 96 of 144

802.11ac20_Channel 48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.3542	68.70	34.98	-43.11	60.56	68.30	7.74	Vertical
2	8373.5417	50.55	36.88	-41.50	45.92	74.00	28.08	Vertical
3	9945.2083	47.38	38.39	-39.28	46.49	68.30	21.81	Vertical



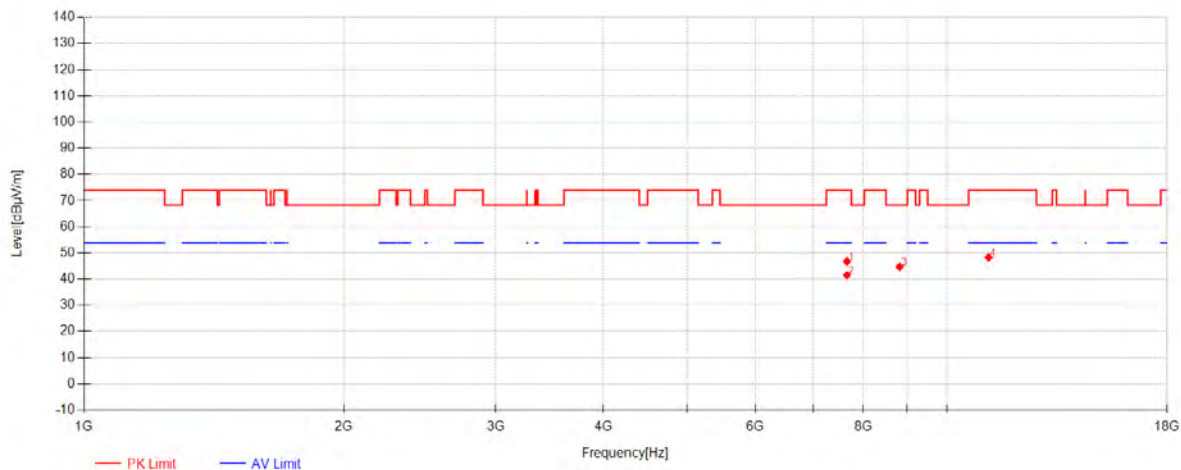
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 97 of 144

802.11ac20_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7659.5833	53.03	36.62	-42.87	46.79	74.00	27.21	Horizontal
2	7659.5833	47.72	36.62	-42.87	41.48	54.00	12.52	Horizontal
3	8816.2917	49.28	36.61	-41.10	44.79	68.30	23.51	Horizontal
4	11180.5	46.44	38.69	-36.82	48.31	74.00	25.69	Horizontal



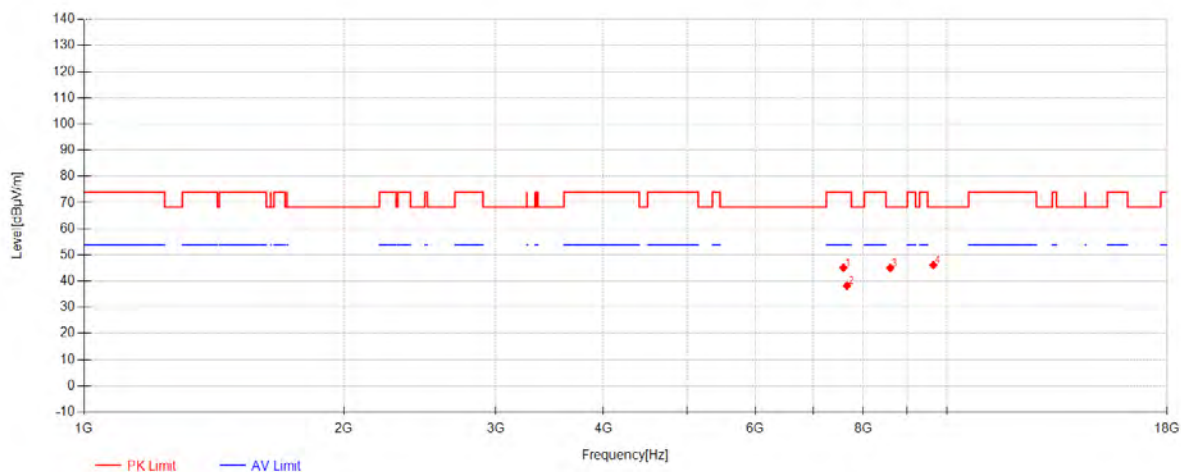
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 98 of 144

802.11ac20_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7588.6667	51.41	36.52	-42.79	45.15	74.00	28.85	Vertical
2	7660.0625	44.49	36.62	-42.87	38.25	54.00	15.75	Vertical
3	8599.2292	49.22	36.74	-40.90	45.06	68.30	23.24	Vertical
4	9646.6875	47.70	37.79	-39.33	46.16	68.30	22.14	Vertical



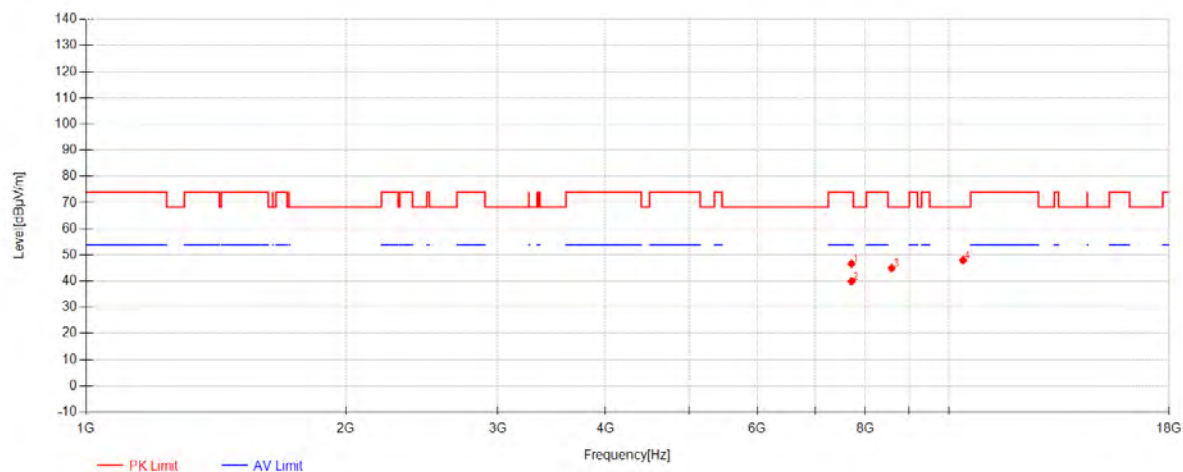
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 99 of 144

802.11ac20_Channel 157



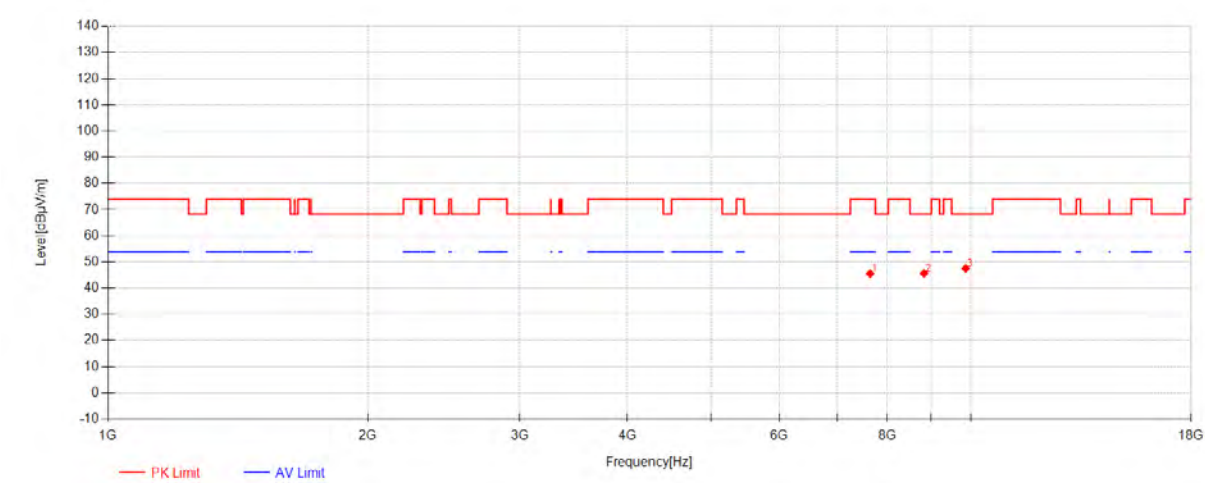
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7713.25	52.88	36.70	-42.90	46.68	74.00	27.32	Horizontal
2	7713.25	46.08	36.70	-42.90	39.88	54.00	14.12	Horizontal
3	8584.8542	49.27	36.75	-41.03	44.99	68.30	23.31	Horizontal
4	10387	48.16	38.54	-38.75	47.95	68.30	20.35	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 100 of 144

802.11ac20_Channel 157



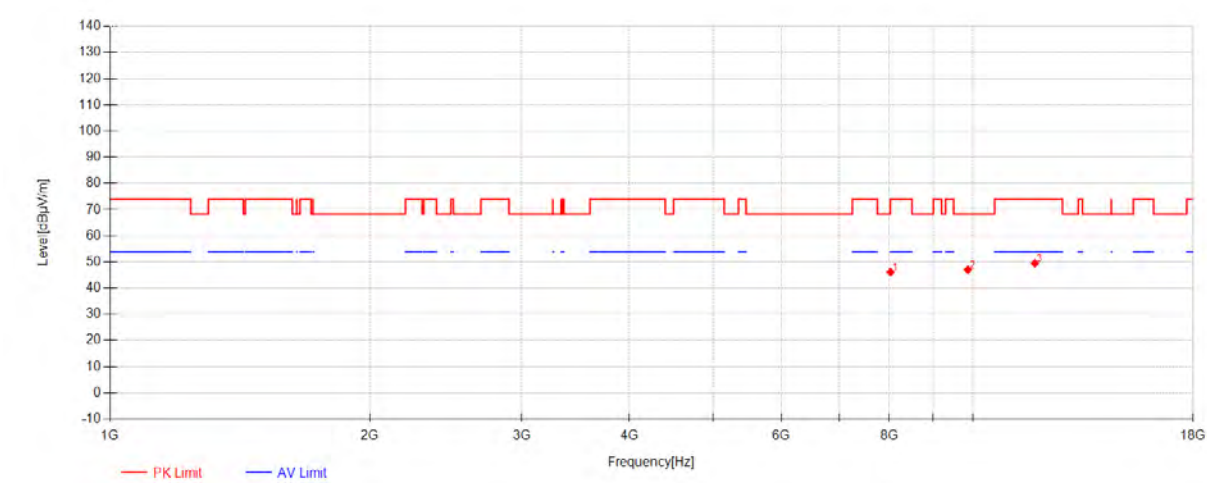
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7643.2917	51.82	36.60	-42.83	45.59	74.00	28.41	Vertical
2	8825.875	50.17	36.60	-41.08	45.69	68.30	22.61	Vertical
3	9862.3125	48.48	38.22	-39.15	47.56	68.30	20.74	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 101 of 144

802.11ac20_Channel 165



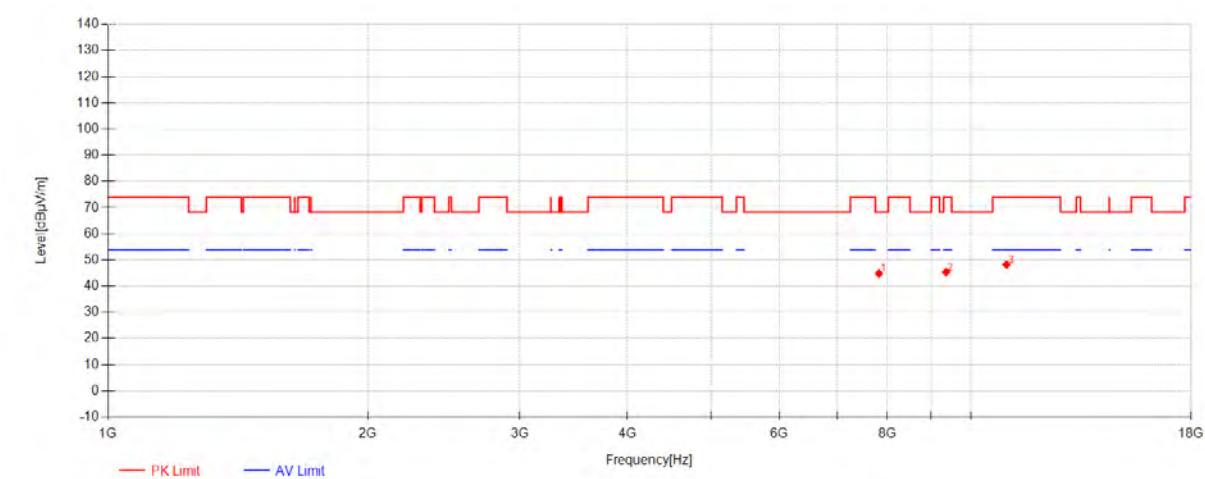
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8027.5833	50.97	37.08	-41.91	46.14	74.00	27.86	Horizontal
2	9869.0208	47.93	38.24	-39.16	47.01	68.30	21.29	Horizontal
3	11801.979	47.69	39.00	-37.20	49.49	74.00	24.51	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 102 of 144

802.11ac20_Channel 165



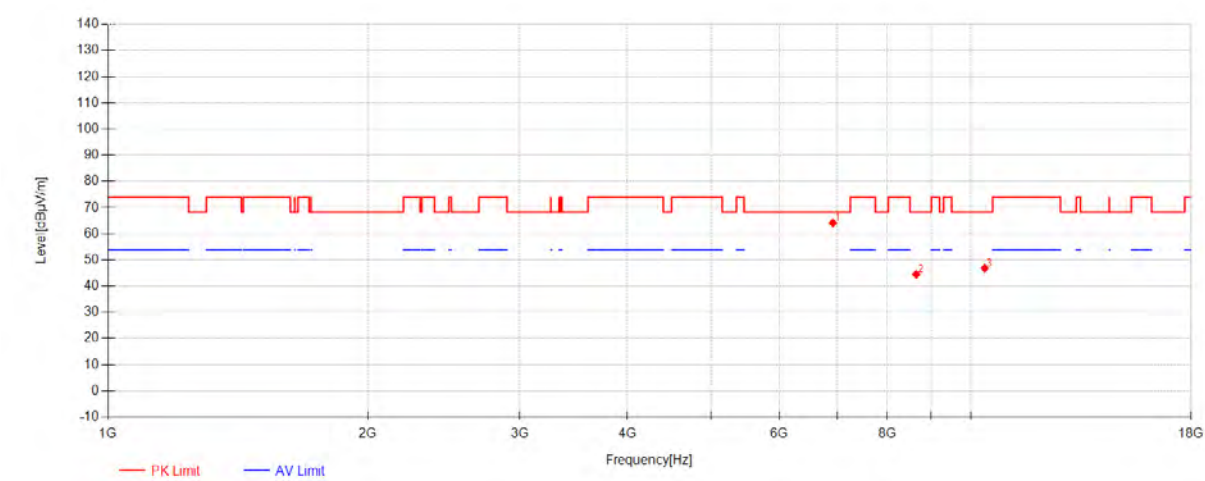
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7824.8958	50.64	36.85	-42.62	44.88	68.30	23.42	Vertical
2	9360.1458	48.18	37.22	-39.98	45.42	74.00	28.58	Vertical
3	10999.375	47.23	38.60	-37.59	48.24	74.00	25.76	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 103 of 144

802.11ac40_Channel 38



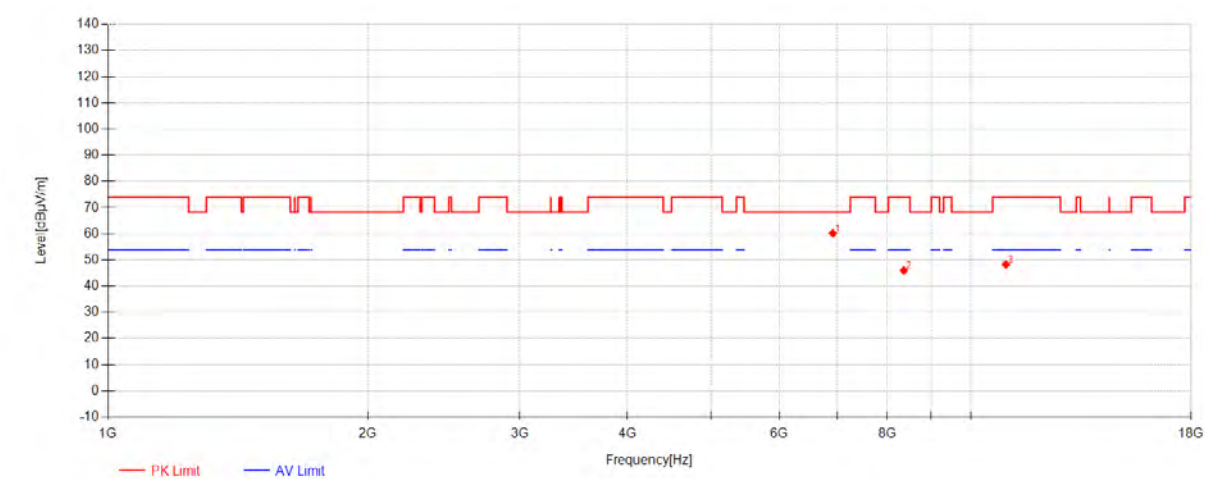
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6919.75	73.08	34.86	-43.72	64.22	68.30	4.08	Horizontal
2	8642.3542	48.97	36.71	-41.08	44.60	68.30	23.70	Horizontal
3	10375.5	47.10	38.54	-38.78	46.86	68.30	21.44	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 104 of 144

802.11ac40_Channel 38



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6919.75	69.01	34.86	-43.72	60.15	68.30	8.15	Vertical
2	8362.5208	50.67	36.88	-41.56	46.00	74.00	28.00	Vertical
3	10980.687	47.27	38.60	-37.63	48.24	74.00	25.76	Vertical



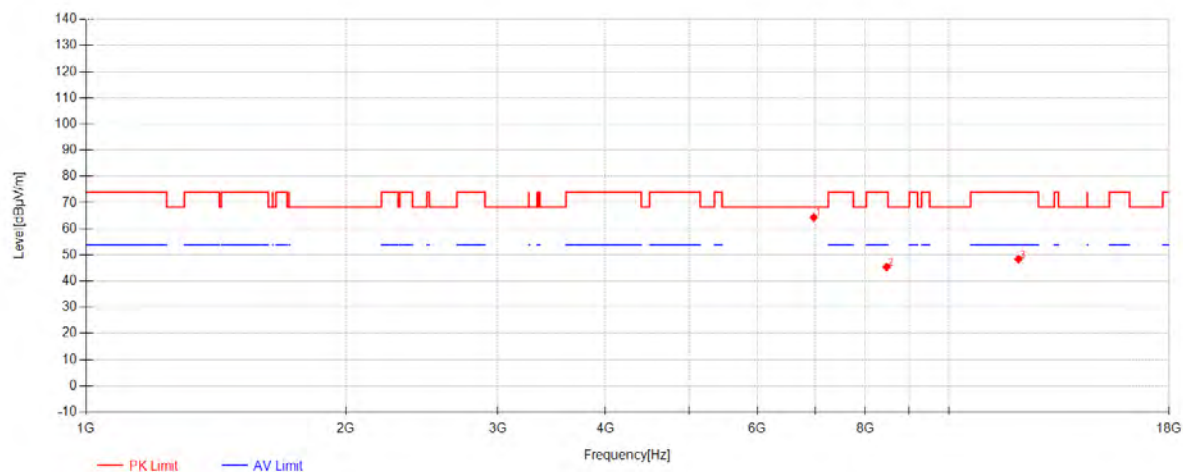
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 105 of 144

802.11ac40_Channel 46



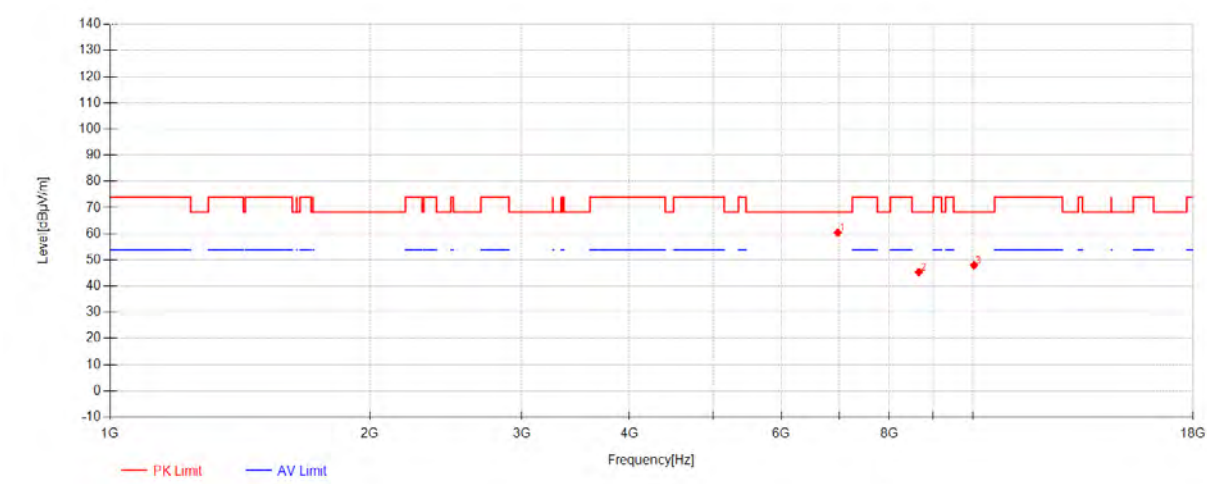
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6972.9375	72.68	34.95	-43.24	64.40	68.30	3.90	Horizontal
2	8469.375	50.30	36.82	-41.67	45.45	74.00	28.55	Horizontal
3	12041.083	46.46	39.11	-37.18	48.39	74.00	25.61	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 106 of 144

802.11ac40_Channel 46



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6972.9375	68.66	34.95	-43.24	60.38	68.30	7.92	Vertical
2	8658.1667	49.87	36.71	-41.15	45.42	68.30	22.88	Vertical
3	10030.979	48.65	38.50	-39.17	47.98	68.30	20.32	Vertical



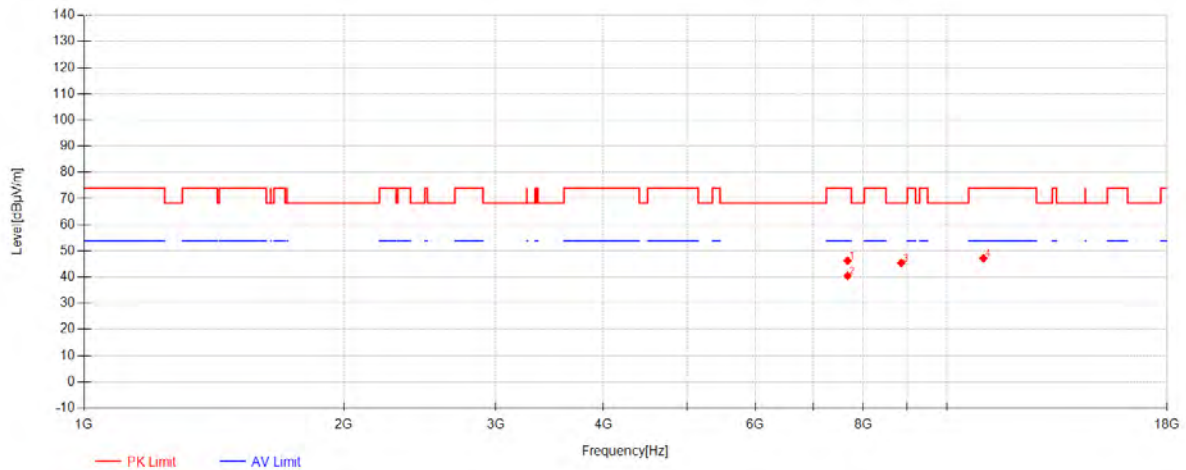
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 107 of 144

802.11ac40_Channel 151



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7673	52.54	36.64	-42.89	46.29	74.00	27.71	Horizontal
2	7673	46.71	36.64	-42.89	40.46	54.00	13.54	Horizontal
3	8854.625	49.93	36.59	-41.01	45.50	68.30	22.80	Horizontal
4	11027.645	46.21	38.61	-37.63	47.19	74.00	26.81	Horizontal



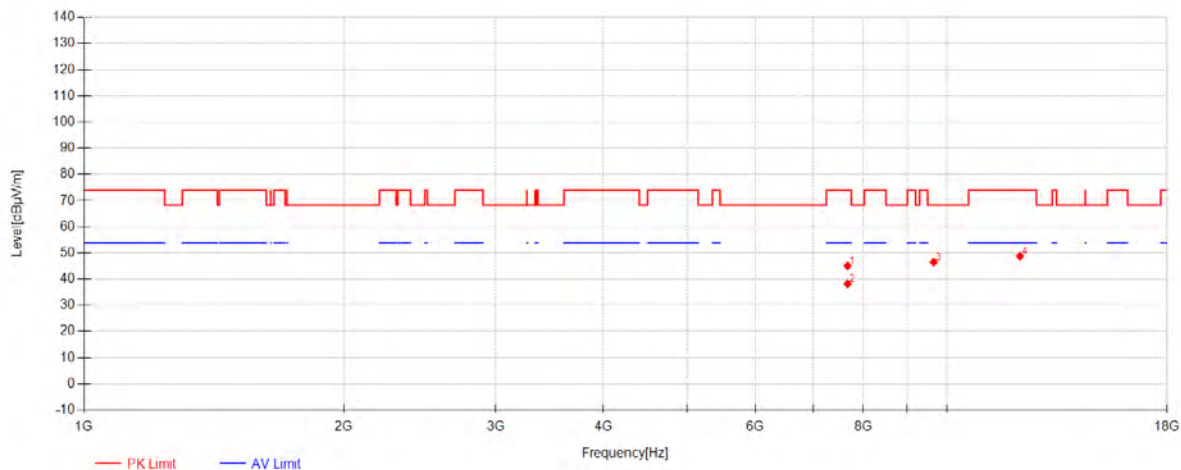
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 108 of 144

802.11ac40_Channel 151



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7673	51.37	36.64	-42.89	45.12	74.00	28.88	Vertical
2	7673	44.47	36.64	-42.89	38.22	54.00	15.78	Vertical
3	9657.2292	48.11	37.81	-39.36	46.56	68.30	21.74	Vertical
4	12155.125	46.74	39.15	-37.15	48.74	74.00	25.26	Vertical



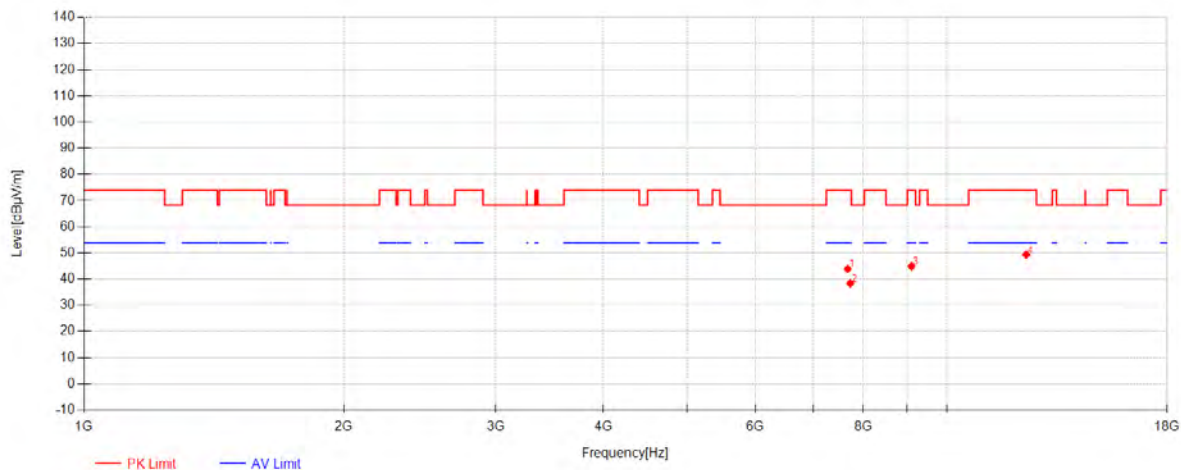
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 109 of 144

802.11ac20_Channel 159



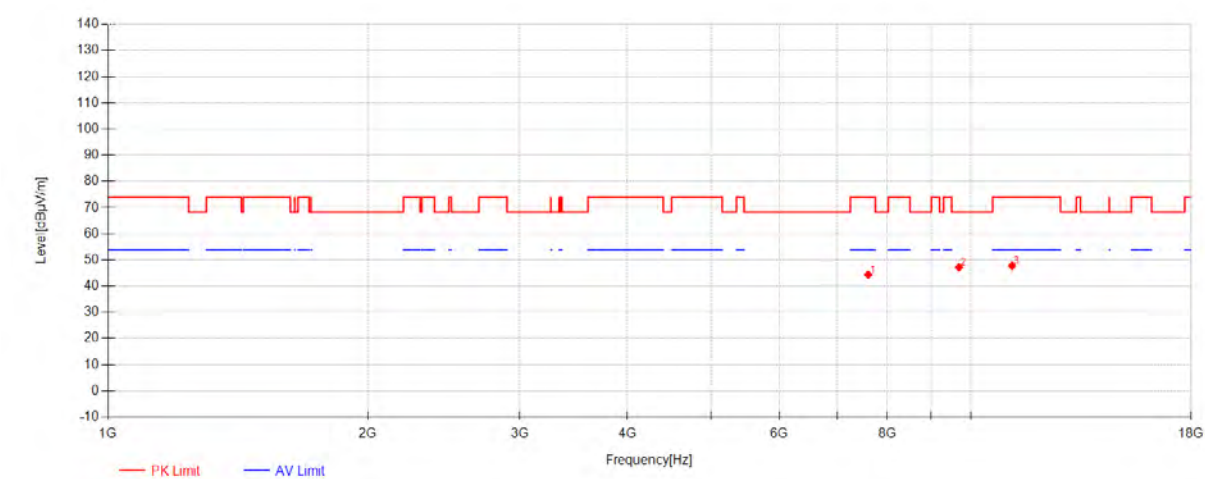
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7675.875	50.17	36.65	-42.90	43.92	74.00	30.08	Horizontal
2	7726.6667	44.52	36.72	-42.85	38.39	54.00	15.61	Horizontal
3	9099.4792	48.66	36.70	-40.41	44.95	74.00	29.05	Horizontal
4	12360.208	46.98	39.21	-36.85	49.34	74.00	24.66	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 110 of 144

802.11ac40_Channel 159



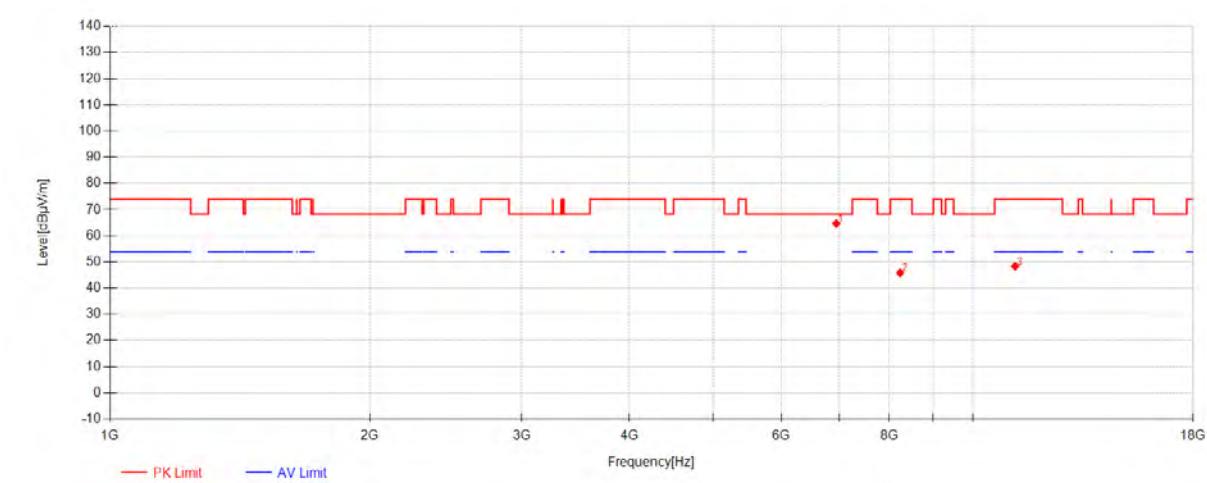
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7605.9167	50.64	36.55	-42.75	44.44	74.00	29.56	Vertical
2	9687.8958	48.77	37.88	-39.45	47.20	68.30	21.10	Vertical
3	11163.25	46.14	38.68	-37.02	47.80	74.00	26.20	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 111 of 144

802.11ac80_Channel 42



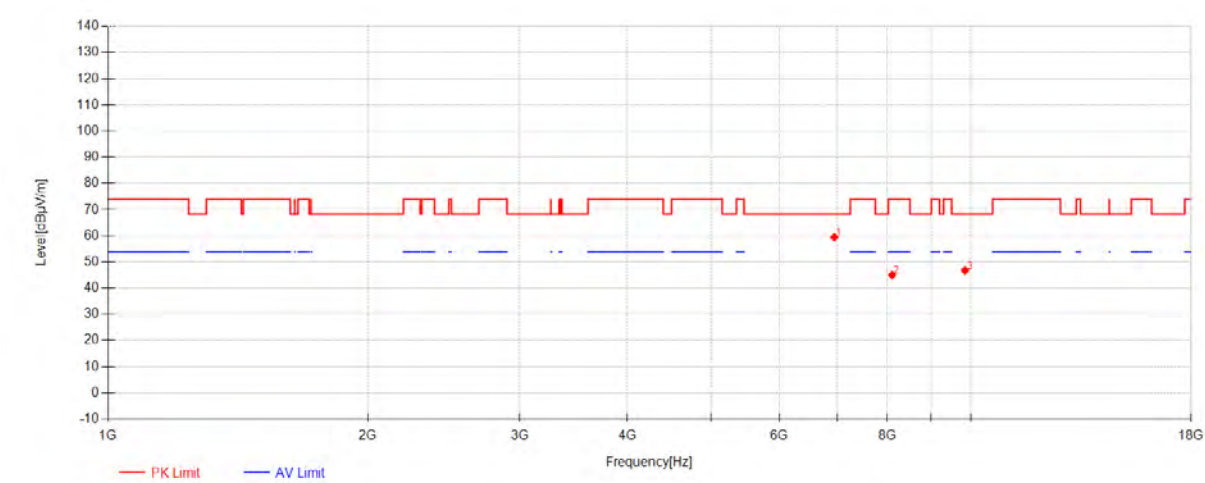
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6946.5833	73.28	34.90	-43.48	64.71	68.30	3.59	Horizontal
2	8236.5	50.96	36.96	-42.05	45.87	74.00	28.13	Horizontal
3	11192.4792	46.33	38.70	-36.69	48.34	74.00	25.66	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 112 of 144

802.11ac80_Channel 42



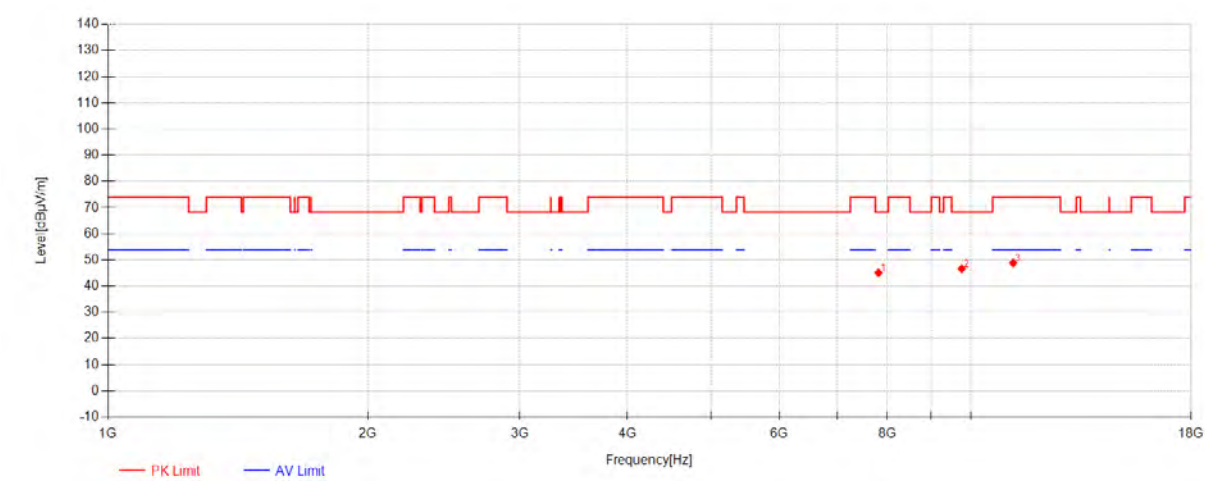
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6946.5833	67.97	34.90	-43.48	59.40	68.30	8.90	Vertical
2	8104.25	49.39	37.04	-41.37	45.05	74.00	28.95	Vertical
3	9844.5833	47.70	38.19	-39.12	46.77	68.30	21.53	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 113 of 144

802.11ac80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7815.3125	50.90	36.84	-42.60	45.14	68.30	23.16	Horizontal
2	9759.2917	47.88	38.02	-39.23	46.67	68.30	21.63	Horizontal
3	11196.7917	46.75	38.70	-36.64	48.81	74.00	25.19	Horizontal



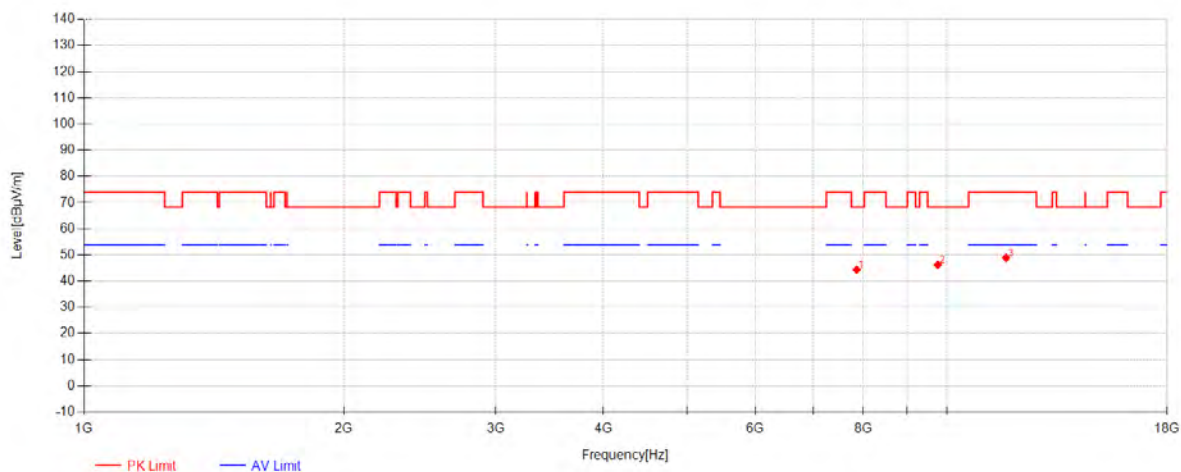
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 114 of 144

802.11ac80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7861.7917	50.22	36.91	-42.68	44.45	68.30	23.85	Vertical
2	9761.2083	47.46	38.02	-39.22	46.26	68.30	22.04	Vertical
3	11712.375	46.15	38.96	-36.23	48.88	74.00	25.12	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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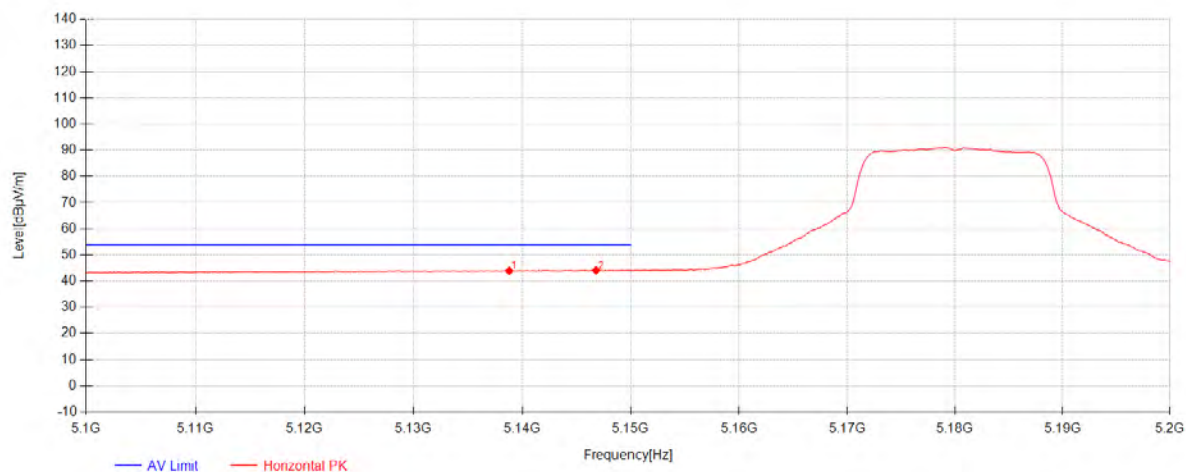
Report No.: SUCR250100001803

Rev.: 01

Page: 115 of 144

Restricted bands around fundamental frequency

802.11a_Channel 36



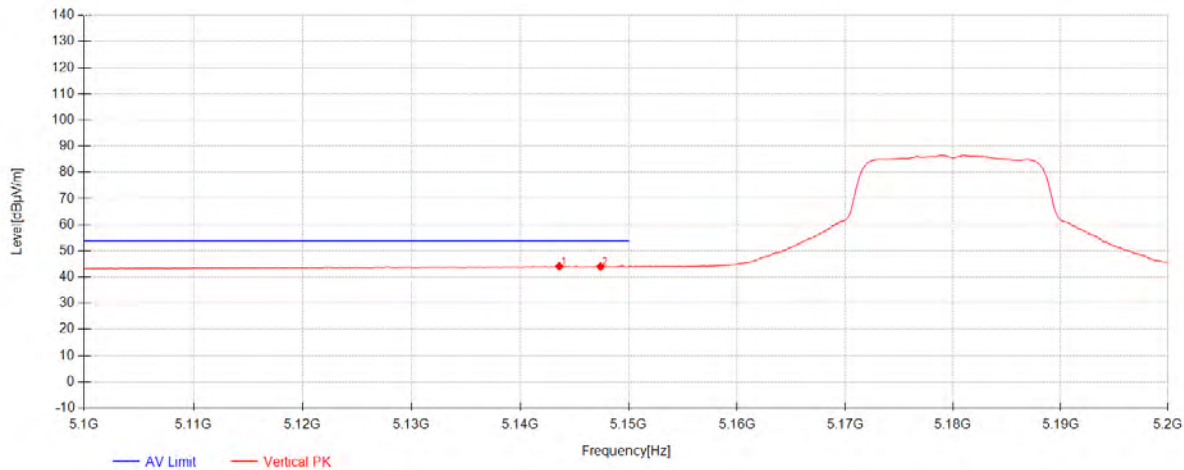
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5138.8	31.50	31.65	-19.17	43.98	54.00	10.02	Horizontal
2	5146.8	31.65	31.66	-19.15	44.17	54.00	9.83	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 116 of 144

802.11a_Channel 36



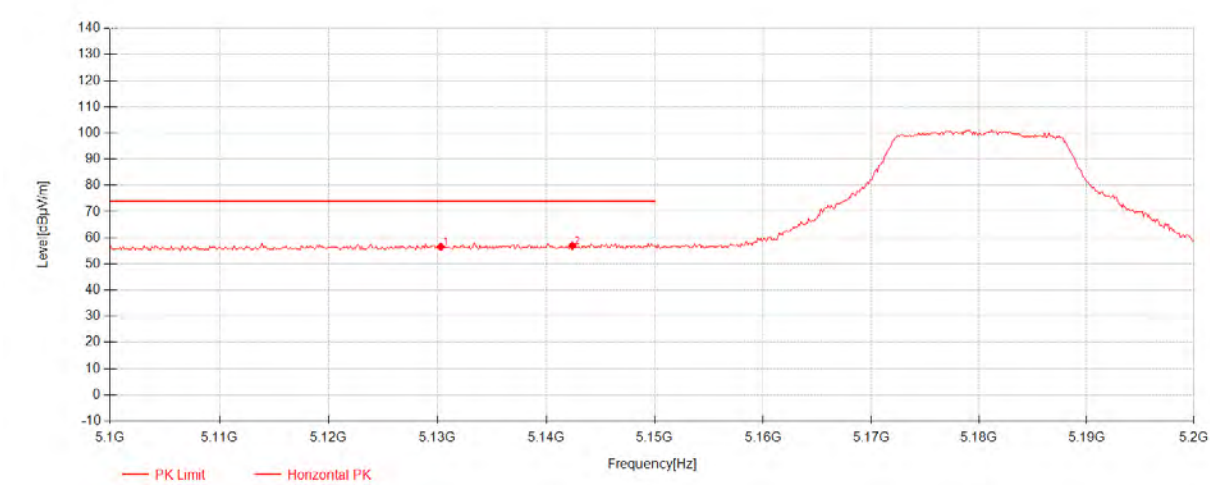
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1	5143.6	31.70	31.66	-19.16	44.20	54.00	9.80	Vertical
2	5147.4	31.56	31.67	-19.15	44.08	54.00	9.92	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 117 of 144

802.11a_Channel 36



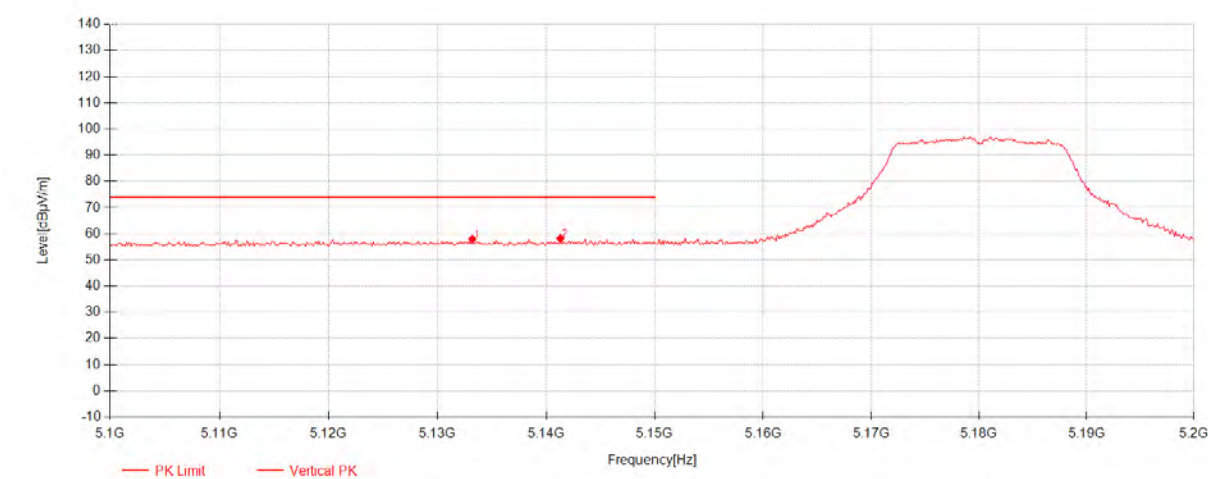
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5130.3	44.12	31.63	-19.19	56.57	74.00	17.43	Horizontal
2	5142.4	44.49	31.66	-19.16	56.99	74.00	17.01	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 118 of 144

802.11a_Channel 36



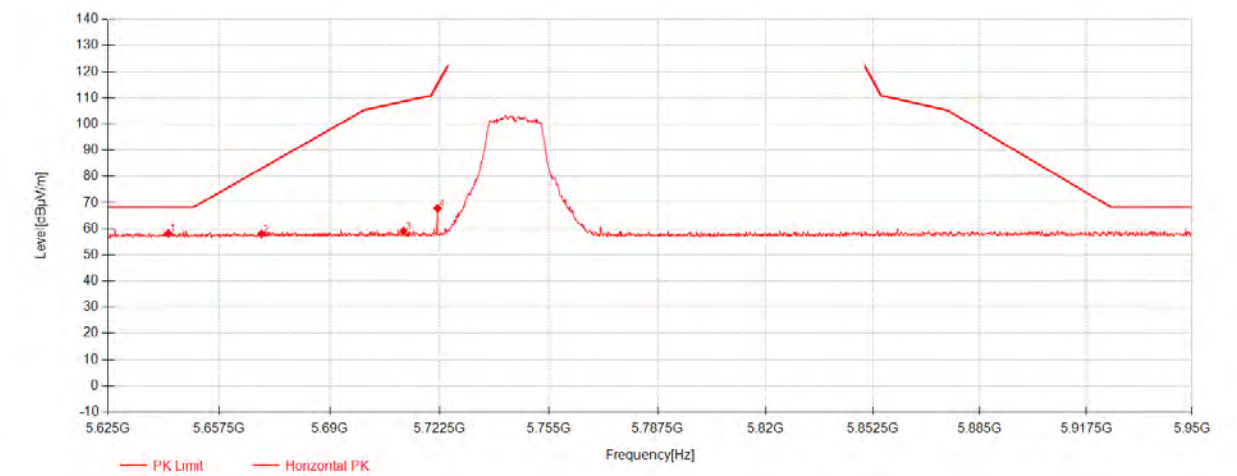
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1	5133.2	45.53	31.64	-19.18	57.99	74.00	16.01	Vertical
2	5141.3	45.72	31.65	-19.16	58.21	74.00	15.79	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 119 of 144

802.11a_Channel 149



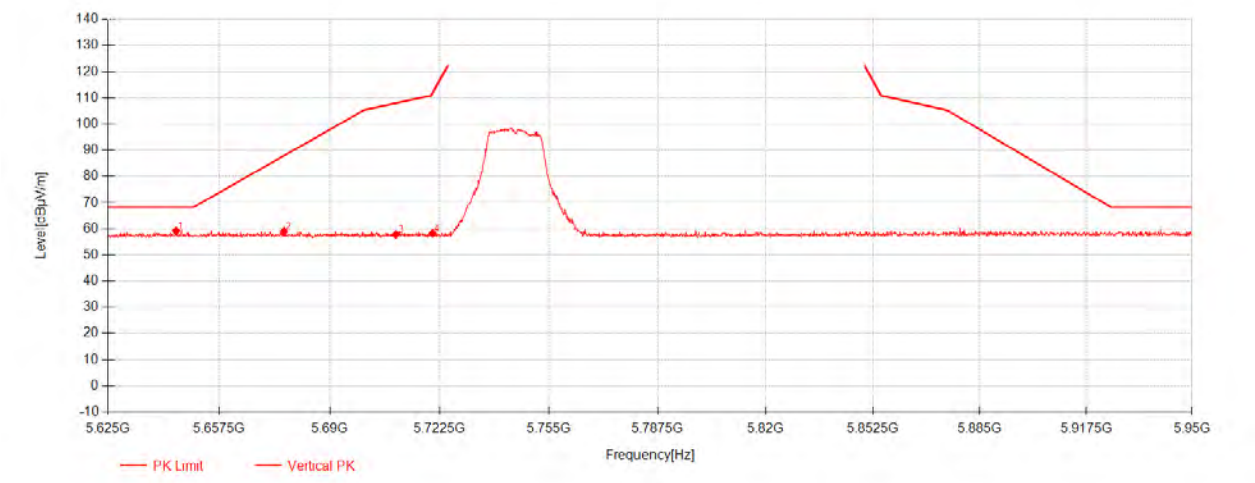
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.55	44.61	32.33	-18.72	58.21	68.30	10.09	Horizontal
2	5669.85	44.39	32.33	-18.73	58.00	83.03	25.03	Horizontal
3	5711.775	45.49	32.34	-18.77	59.07	108.60	49.53	Horizontal
4	5721.85	54.25	32.34	-18.80	67.80	115.12	47.32	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 120 of 144

802.11a_Channel 149



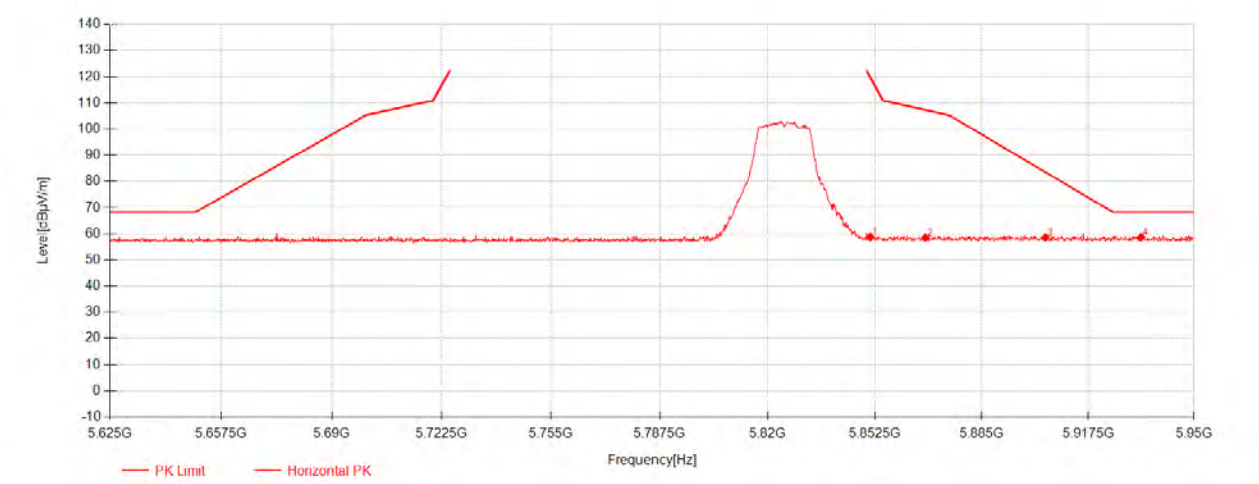
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5644.825	45.56	32.33	-18.72	59.16	68.30	9.14	Vertical
2	5676.5125	45.38	32.34	-18.73	58.99	87.96	28.97	Vertical
3	5709.5	44.22	32.34	-18.76	57.80	107.96	50.16	Vertical
4	5720.3875	44.71	32.34	-18.79	58.26	111.78	53.52	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 121 of 144

802.11a_Channel 165



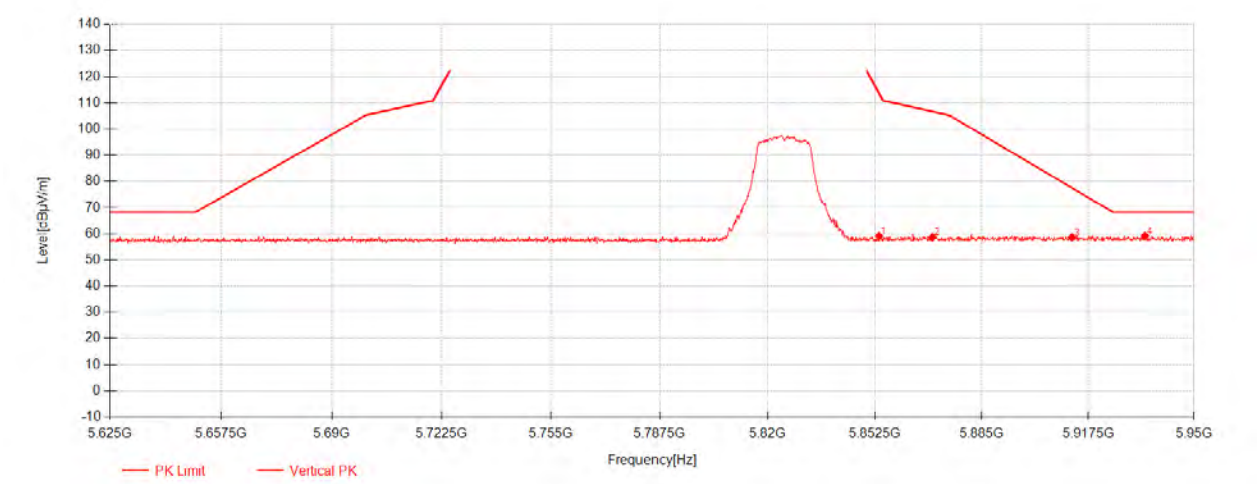
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5851.0375	45.31	32.37	-18.88	58.80	119.93	61.13	Horizontal
2	5867.775	44.98	32.37	-18.83	58.52	107.32	48.80	Horizontal
3	5904.3375	44.94	32.38	-18.75	58.57	83.55	24.98	Horizontal
4	5933.75	45.14	32.39	-18.81	58.72	68.30	9.58	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 122 of 144

802.11a_Channel 165



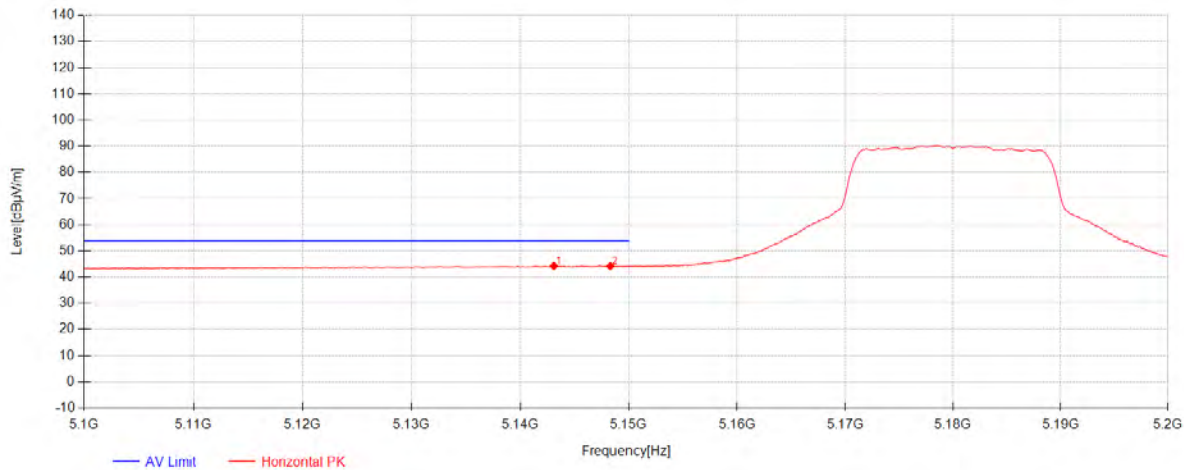
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5853.6375	45.57	32.37	-18.87	59.07	114.01	54.94	Vertical
2	5869.8875	45.14	32.37	-18.83	58.69	106.73	48.04	Vertical
3	5912.4625	45.01	32.38	-18.77	58.63	77.55	18.92	Vertical
4	5934.8875	45.58	32.39	-18.81	59.15	68.30	9.15	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 123 of 144

802.11ac20_Channel 36



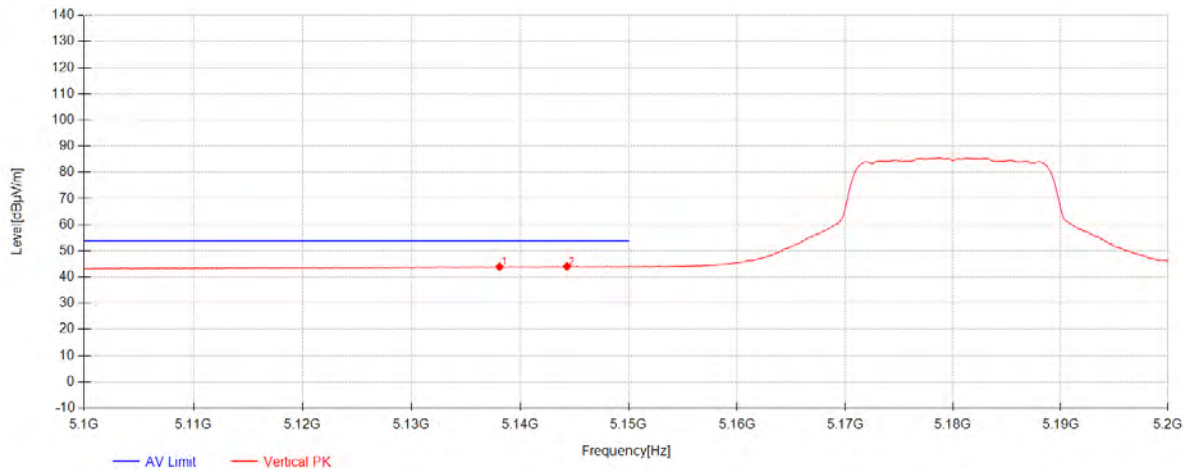
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1	5143.1	31.82	31.66	-19.16	44.32	54.00	9.68	Horizontal
2	5148.3	31.76	31.67	-19.14	44.28	54.00	9.72	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 124 of 144

802.11ac20_Channel 36



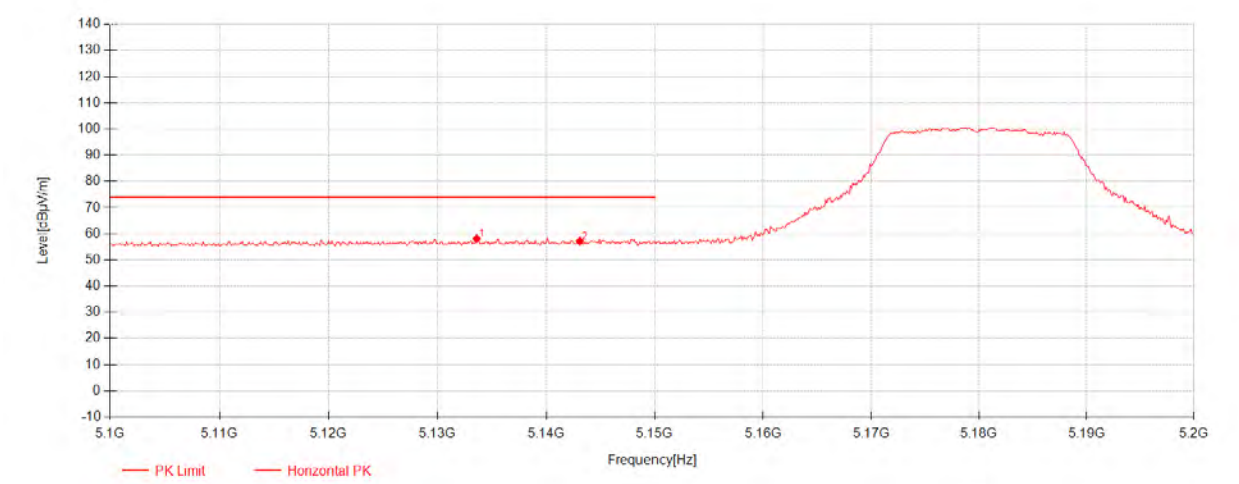
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5138.1	31.51	31.65	-19.17	43.99	54.00	10.01	Vertical
2	5144.3	31.61	31.66	-19.15	44.12	54.00	9.88	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 125 of 144

802.11ac20_Channel 36



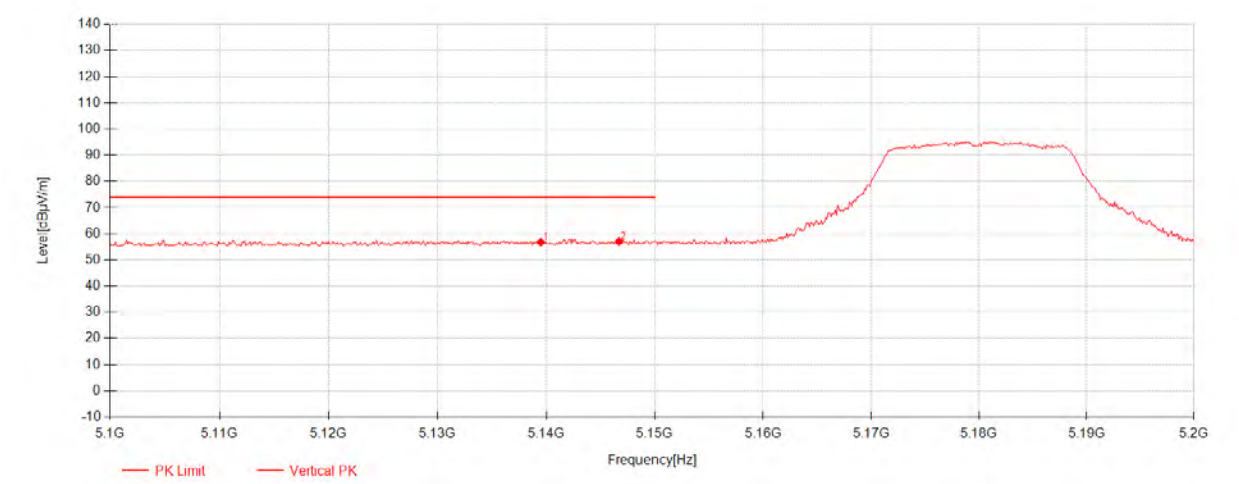
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5133.6	45.64	31.64	-19.18	58.10	74.00	15.90	Horizontal
2	5143.1	44.69	31.66	-19.16	57.19	74.00	16.81	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 126 of 144

802.11ac20_Channel 36



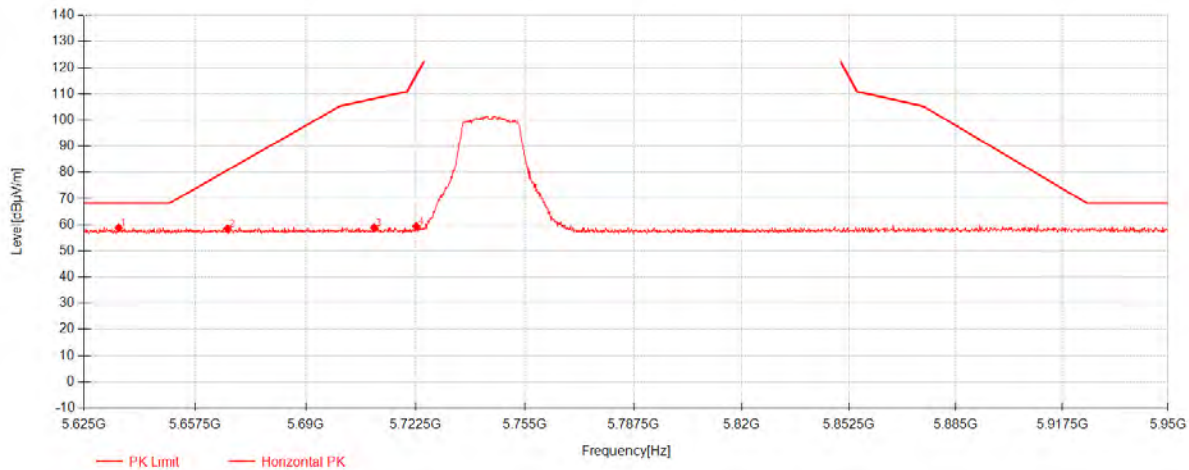
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1	5139.5	44.36	31.65	-19.17	56.85	74.00	17.15	Vertical
2	5146.7	44.59	31.66	-19.15	57.11	74.00	16.89	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 127 of 144

802.11ac20_Channel 149



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5635.075	45.26	32.33	-18.72	58.86	68.30	9.44	Horizontal
2	5666.925	44.87	32.33	-18.73	58.48	80.86	22.38	Horizontal
3	5710.15	45.31	32.34	-18.76	58.89	108.14	49.25	Horizontal
4	5722.6625	45.81	32.34	-18.80	59.36	116.97	57.61	Horizontal



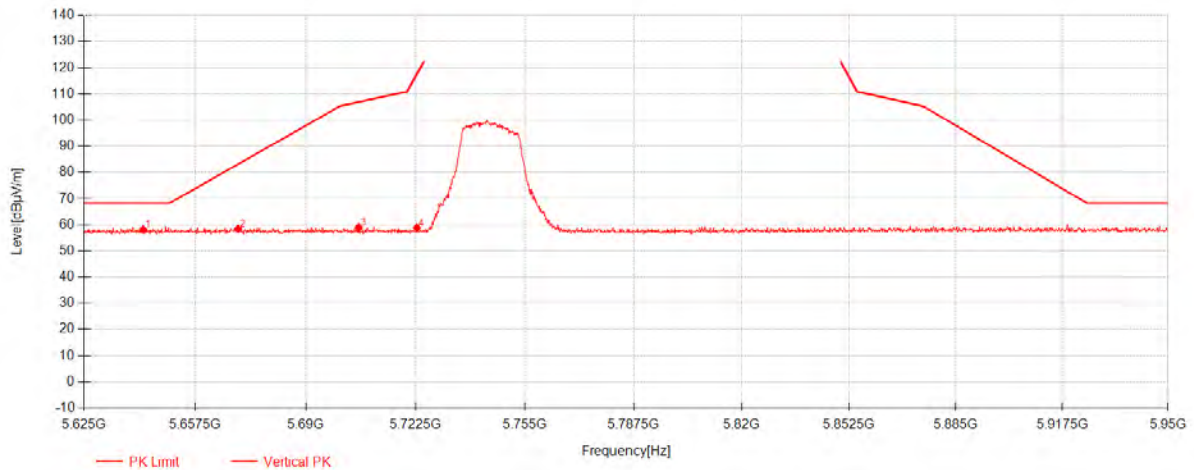
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 128 of 144

802.11ac20_Channel 149



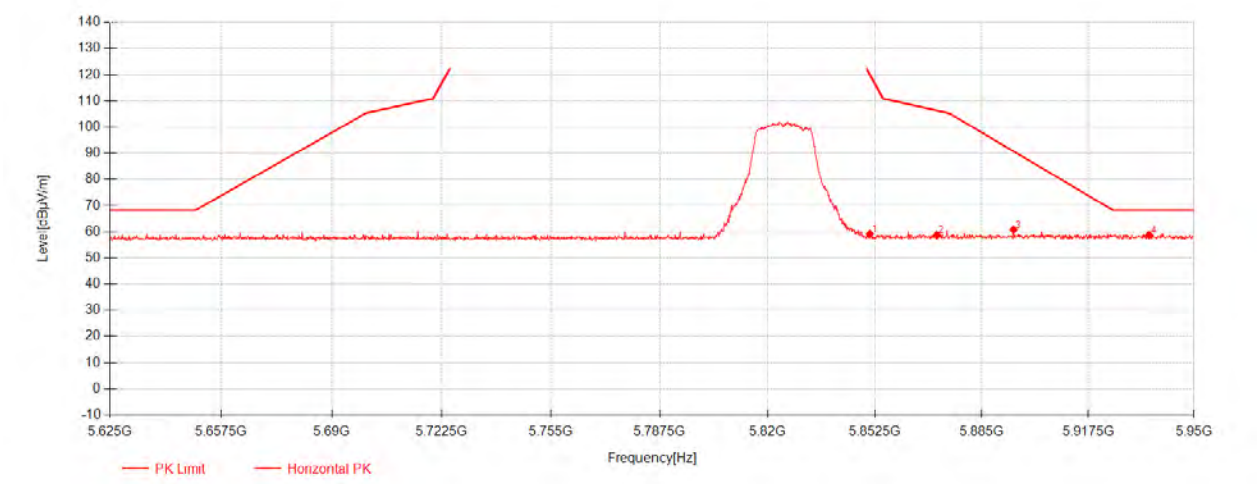
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.225	44.56	32.33	-18.72	58.16	68.30	10.14	Vertical
2	5670.0125	44.80	32.33	-18.73	58.41	83.15	24.74	Vertical
3	5705.6	45.42	32.34	-18.75	59.01	106.87	47.86	Vertical
4	5722.825	45.30	32.34	-18.80	58.85	117.34	58.49	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 129 of 144

802.11ac20_Channel 165



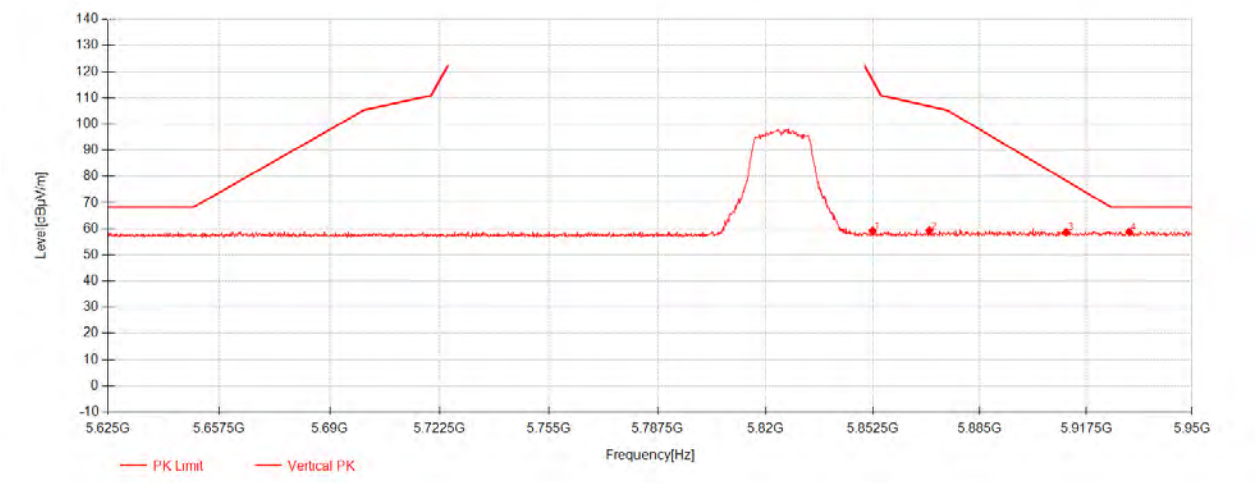
Data List								
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1	5850.875	45.63	32.37	-18.88	59.12	120.30	61.18	Horizontal
2	5871.1875	45.17	32.37	-18.82	58.72	106.37	47.65	Horizontal
3	5894.5875	47.12	32.38	-18.76	60.74	90.77	30.03	Horizontal
4	5936.1875	45.22	32.39	-18.82	58.79	68.30	9.51	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 130 of 144

802.11ac20_Channel 165



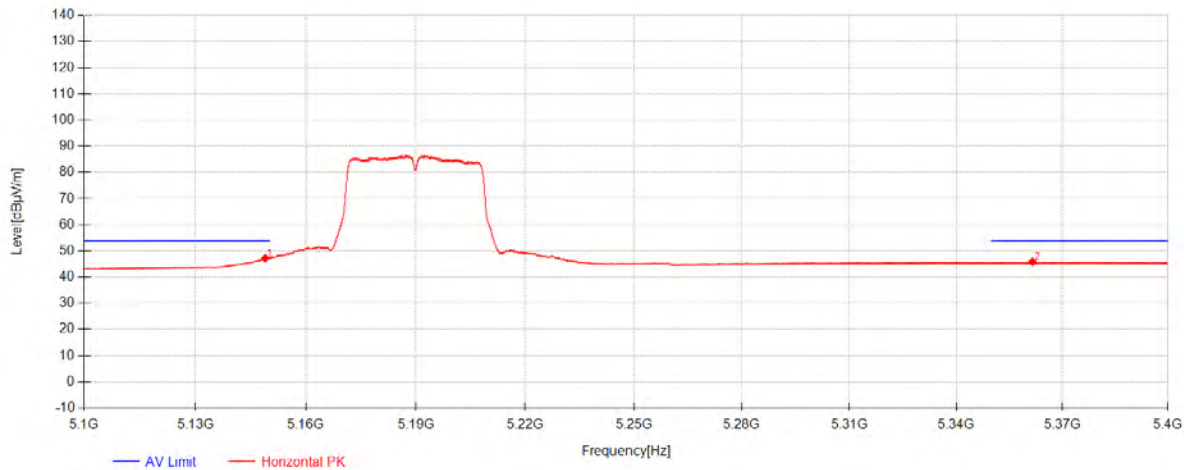
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5852.3375	45.67	32.37	-18.88	59.16	116.97	57.81	Vertical
2	5869.5625	45.69	32.37	-18.83	59.24	106.82	47.58	Vertical
3	5911.325	45.06	32.38	-18.76	58.68	78.39	19.71	Vertical
4	5930.6625	45.23	32.39	-18.80	58.81	68.30	9.49	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 131 of 144

802.11ac40_Channel 38



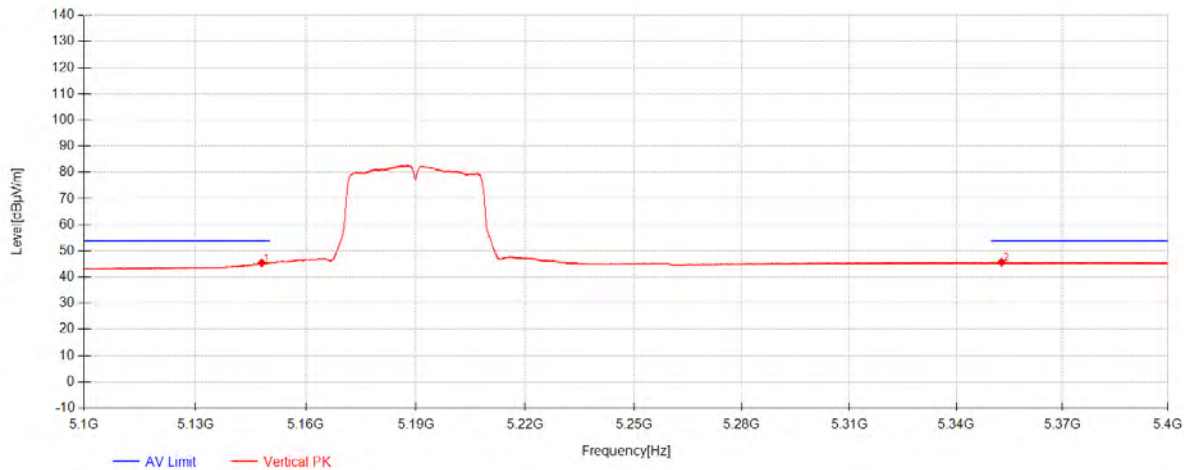
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.96	34.70	31.67	-19.14	47.23	54.00	6.77	Horizontal
2	5361.5525	32.78	32.05	-18.93	45.90	54.00	8.10	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 132 of 144

802.11ac40_Channel 38



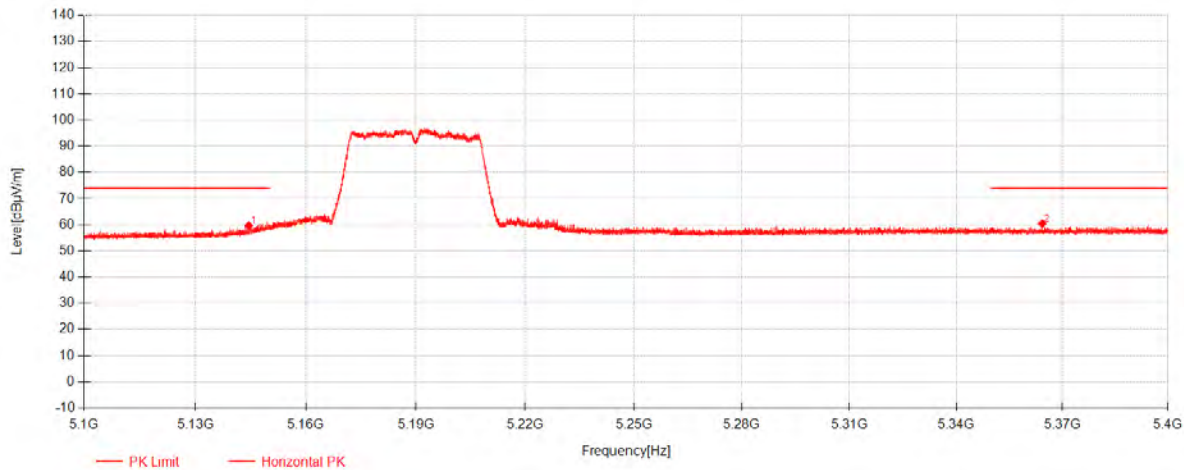
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148	32.96	31.67	-19.14	45.48	54.00	8.52	Vertical
2	5352.82	32.61	32.04	-18.91	45.74	54.00	8.26	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 133 of 144

802.11ac40_Channel 38



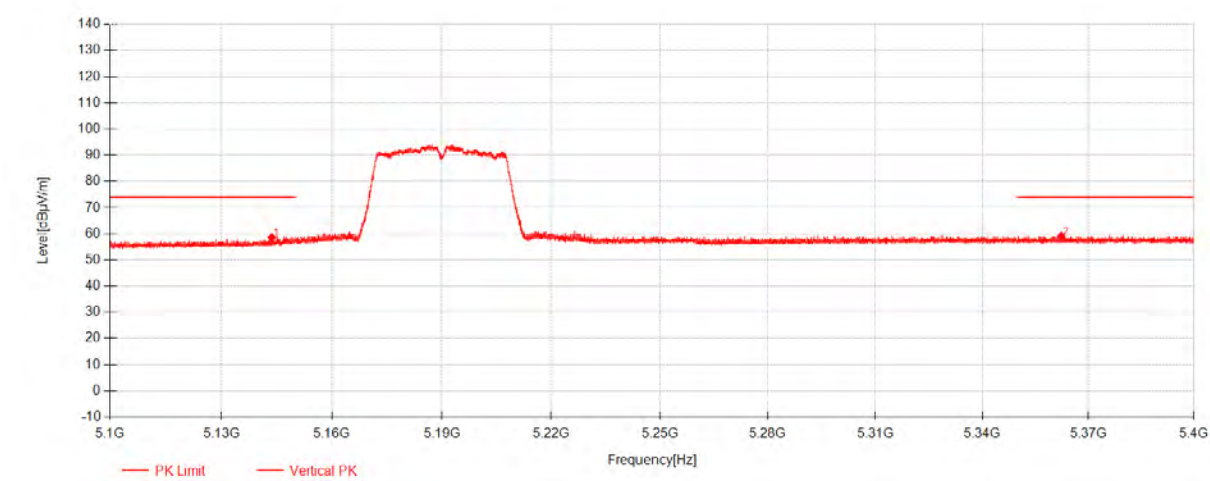
Data List								
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1	5144.46	47.20	31.66	-19.15	59.71	74.00	14.29	Horizontal
2	5364.265	47.26	32.06	-18.93	60.38	74.00	13.62	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 134 of 144

802.11ac40_Channel 38



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5143.68	46.12	31.66	-19.16	58.62	74.00	15.38	Vertical
2	5362.3225	45.96	32.05	-18.93	59.08	74.00	14.92	Vertical



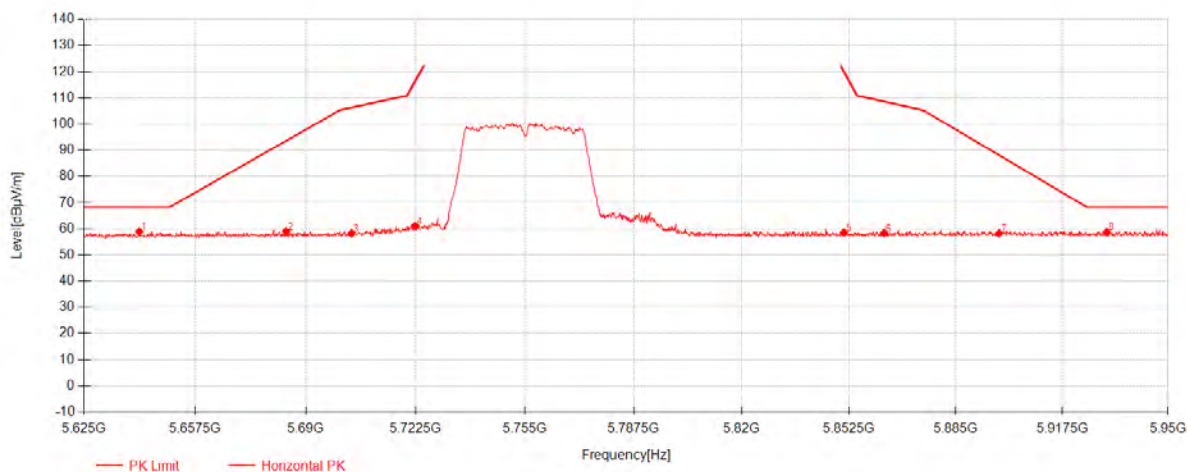
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 135 of 144

802.11ac40_Channel 151



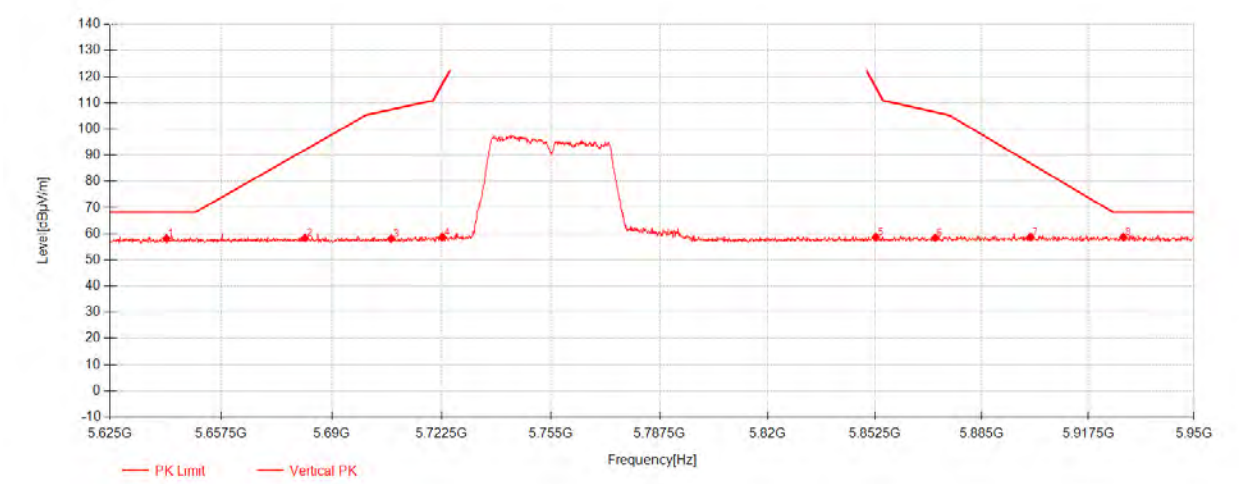
Data List								
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1	5641.0875	45.31	32.33	-18.72	58.91	68.30	9.39	Horizontal
2	5684.15	45.36	32.34	-18.73	58.97	93.61	34.64	Horizontal
3	5703.4875	44.64	32.34	-18.74	58.24	106.28	48.04	Horizontal
4	5722.3375	47.56	32.34	-18.80	61.11	116.23	55.12	Horizontal
5	5850.875	45.09	32.37	-18.88	58.58	120.30	61.72	Horizontal
6	5863.0625	44.79	32.37	-18.85	58.32	108.64	50.32	Horizontal
7	5898.1625	44.63	32.38	-18.75	58.26	88.12	29.86	Horizontal
8	5931.15	45.16	32.39	-18.81	58.74	68.30	9.56	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 136 of 144

802.11ac40_Channel 151



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5641.4125	44.62	32.33	-18.72	58.22	68.30	10.08	Vertical
2	5682.0375	44.75	32.34	-18.73	58.36	92.05	33.69	Vertical
3	5707.55	44.57	32.34	-18.75	58.16	107.42	49.26	Vertical
4	5722.6625	45.26	32.34	-18.80	58.81	116.97	58.16	Vertical
5	5852.6625	45.32	32.37	-18.88	58.81	116.23	57.42	Vertical
6	5870.7	44.90	32.37	-18.82	58.45	106.50	48.05	Vertical
7	5899.7875	45.16	32.38	-18.74	58.80	86.92	28.12	Vertical
8	5928.225	45.17	32.39	-18.80	58.76	68.30	9.54	Vertical



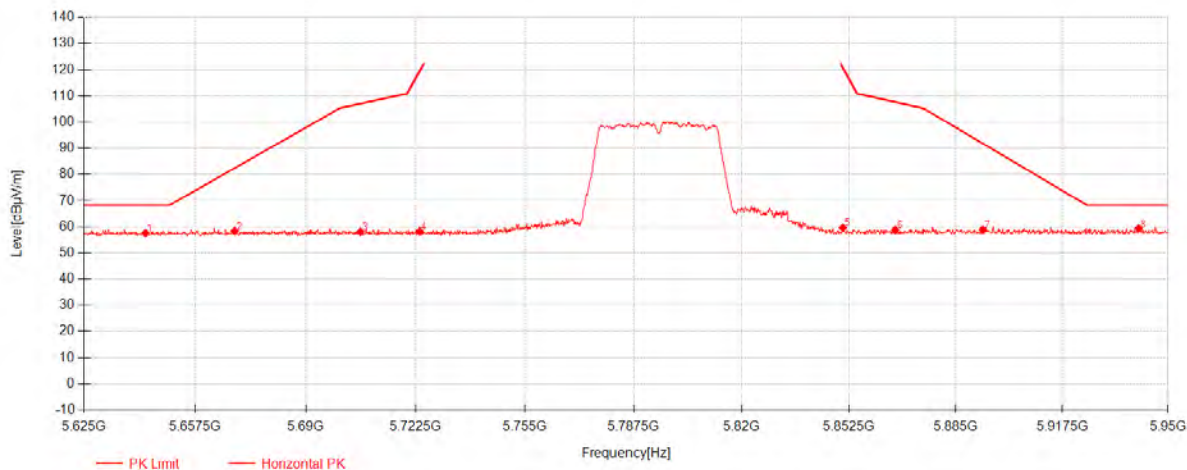
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 137 of 144

802.11ac40_Channel 159



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.875	43.99	32.33	-18.72	57.59	68.30	10.71	Horizontal
2	5669.0375	44.72	32.33	-18.73	58.33	82.43	24.10	Horizontal
3	5706.0875	44.48	32.34	-18.75	58.07	107.01	48.94	Horizontal
4	5723.6375	44.70	32.34	-18.80	58.24	119.19	60.95	Horizontal
5	5850.55	46.14	32.37	-18.88	59.63	121.05	61.42	Horizontal
6	5866.475	45.26	32.37	-18.84	58.80	107.68	48.88	Horizontal
7	5893.125	45.27	32.38	-18.76	58.89	91.85	32.96	Horizontal
8	5940.9	45.74	32.39	-18.83	59.30	68.30	9.00	Horizontal



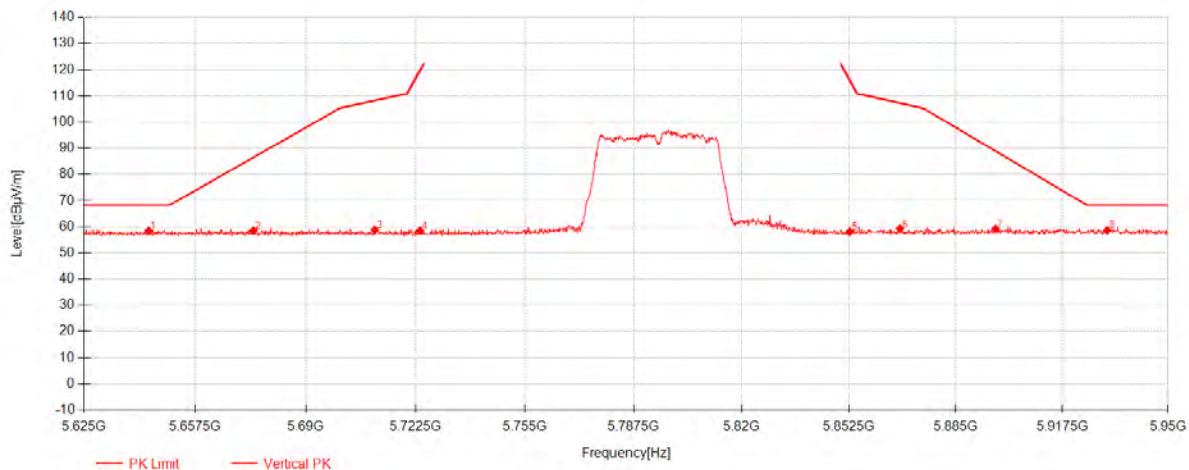
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 138 of 144

802.11ac40_Channel 159



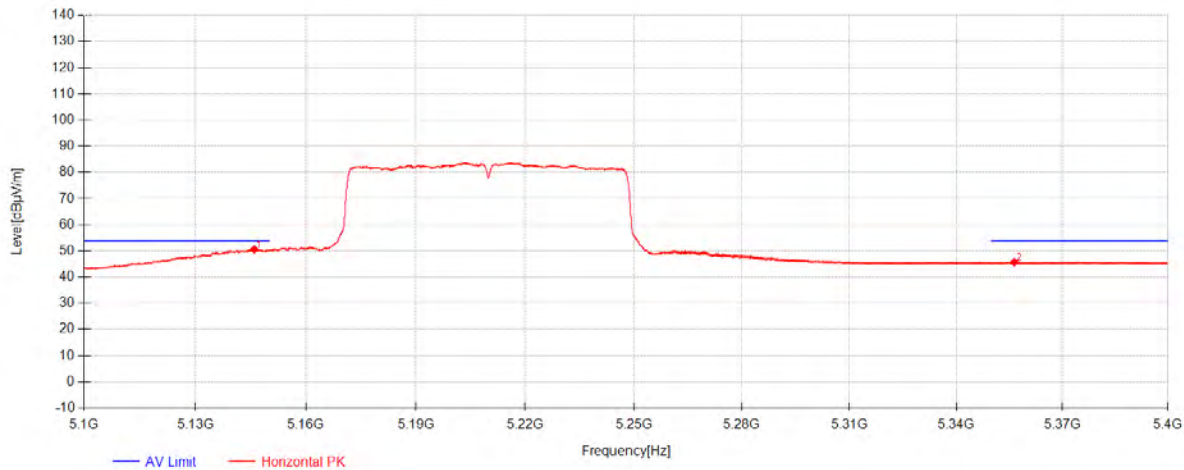
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5643.85	44.90	32.33	-18.72	58.50	68.30	9.80	Vertical
2	5674.5625	44.87	32.33	-18.73	58.48	86.52	28.04	Vertical
3	5710.3125	45.24	32.34	-18.76	58.82	108.19	49.37	Vertical
4	5723.8	44.99	32.34	-18.80	58.53	119.56	61.03	Vertical
5	5852.6625	44.64	32.37	-18.88	58.13	116.23	58.10	Vertical
6	5867.9375	45.70	32.37	-18.83	59.24	107.28	48.04	Vertical
7	5897.025	45.52	32.38	-18.75	59.15	88.96	29.81	Vertical
8	5931.3125	45.08	32.39	-18.81	58.66	68.30	9.64	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 139 of 144

802.11ac80_Channel 42



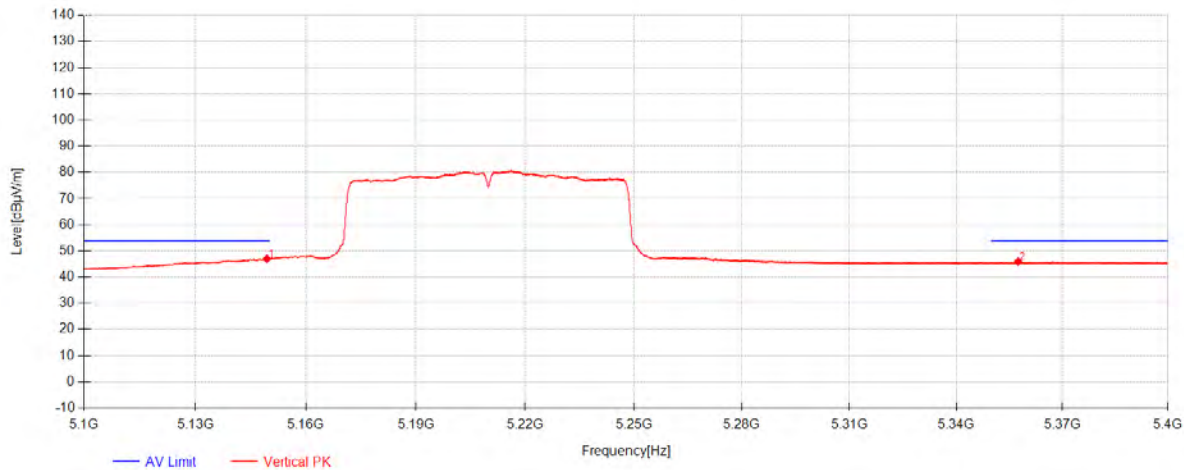
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5145.9733	38.09	31.66	-19.15	50.60	54.00	3.40	Horizontal
2	5356.4075	32.64	32.04	-18.92	45.77	54.00	8.23	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 140 of 144

802.11ac80_Channel 42



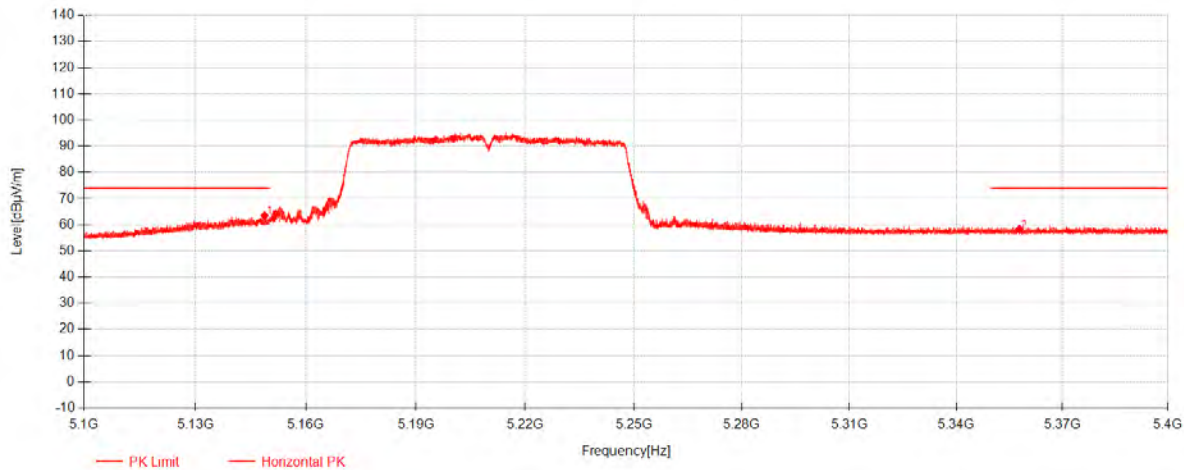
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5149.3867	34.48	31.67	-19.14	47.01	54.00	6.99	Vertical
2	5357.475	32.83	32.04	-18.92	45.96	54.00	8.04	Vertical



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 141 of 144

802.11ac80_Channel 42



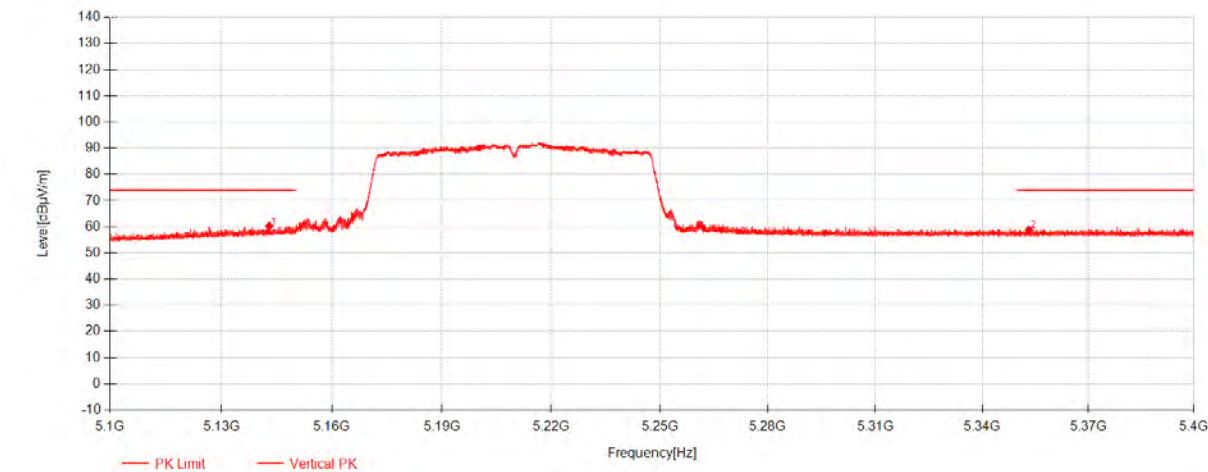
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5148.76	51.04	31.67	-19.14	63.56	74.00	10.44	Horizontal
2	5357.8425	45.17	32.04	-18.92	58.30	74.00	15.70	Horizontal



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803
Rev.: 01
Page: 142 of 144

802.11ac80_Channel 42



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5143	47.74	31.66	-19.16	60.24	74.00	13.76	Vertical
2	5353.17	45.62	32.04	-18.91	58.75	74.00	15.25	Vertical



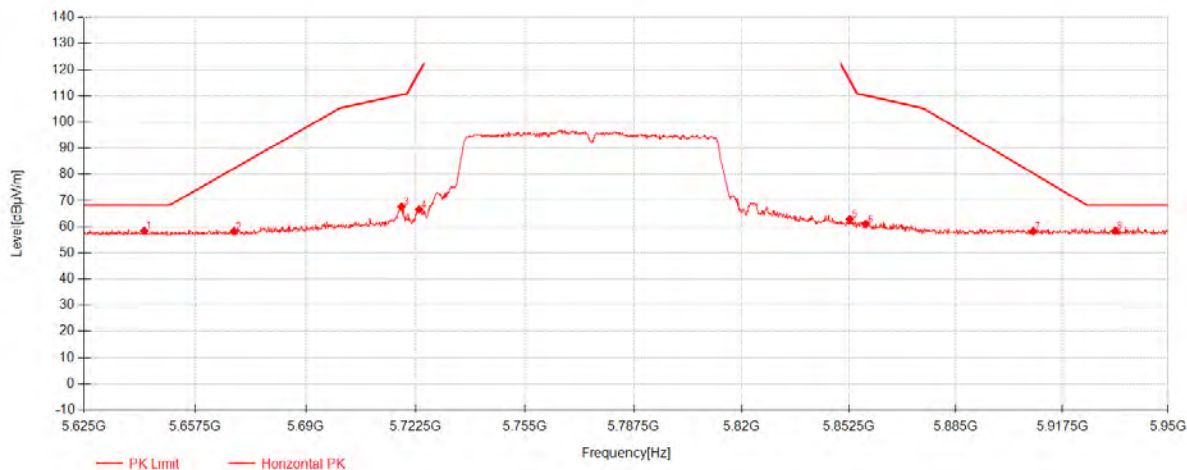
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 143 of 144

802.11ac80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.55	44.84	32.33	-18.72	58.44	68.30	9.86	Horizontal
2	5668.875	44.62	32.33	-18.73	58.23	82.31	24.08	Horizontal
3	5718.275	54.11	32.34	-18.78	67.67	110.42	42.75	Horizontal
4	5723.475	53.06	32.34	-18.80	66.60	118.82	52.22	Horizontal
5	5852.6625	49.47	32.37	-18.88	62.96	116.23	53.27	Horizontal
6	5857.5375	47.65	32.37	-18.86	61.16	110.19	49.03	Horizontal
7	5908.5625	44.66	32.38	-18.76	58.28	80.43	22.15	Horizontal
8	5933.75	44.89	32.39	-18.81	58.47	68.30	9.83	Horizontal



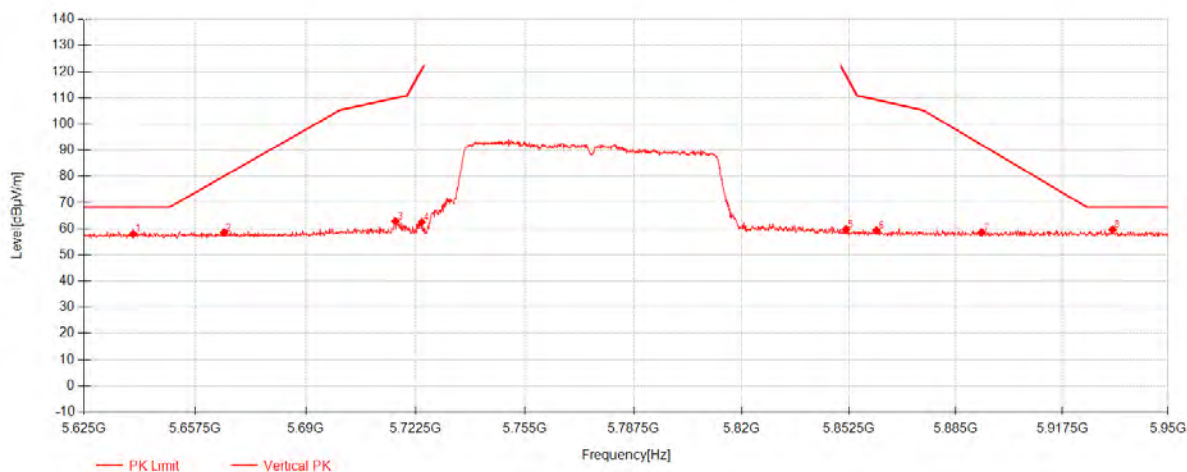
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250100001803

Rev.: 01

Page: 144 of 144

802.11ac80_Channel 155



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5639.3	44.43	32.33	-18.72	58.03	68.30	10.27	Vertical
2	5665.95	44.94	32.33	-18.73	58.55	80.14	21.59	Vertical
3	5716.4875	49.40	32.34	-18.78	62.96	109.92	46.96	Vertical
4	5724.2875	49.01	32.34	-18.80	62.55	120.68	58.13	Vertical
5	5851.525	46.28	32.37	-18.88	59.77	118.82	59.05	Vertical
6	5860.7875	45.82	32.37	-18.85	59.34	109.28	49.94	Vertical
7	5892.8	45.00	32.38	-18.76	58.62	92.09	33.47	Vertical
8	5932.9375	46.05	32.39	-18.81	59.63	68.30	8.67	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---