

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249805

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# TEST REPORT

**Application No.:** SZCR2406002498AT  
**Applicant:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Applicant:** Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China  
**Manufacturer:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Manufacturer:** Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China

### Equipment Under Test (EUT):

**EUT Name:** DJI Flip  
**Model No.:** DF1A0424  
**Trade Mark:** DJI  
**FCC ID:** SS3-DF1A042424  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2024-06-28  
**Date of Test:** 2024-08-19 to 2024-09-16  
**Date of Issue:** 2024-09-19

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-09-19		Original

<b>Authorized for issue by:</b>			
		Darren Yuan	
		_____ Darren Yuan/Project Engineer	
		Eric Fu	
		_____ Eric Fu/Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

**Remark: KDB 789033 D02 is not accredited by A2LA**



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Powered by Lithium Ion Rechargeable Battery. Battery information Model: BWX141-3110-7.16 Nominal voltage: 7.16V
Operation Frequency (20MHz):	5745MHz-5825MHz
Operation Frequency (40MHz):	5755MHz-5795MHz
Operation Frequency (80MHz):	5775MHz
Channel number:	20MHz bandwidth: 5 40MHz bandwidth: 2 80MHz bandwidth: 1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Channel Spacing	802.11a/n/ac: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
Antenna Type:	PIFA
Antenna Gain:	1.9dBi
Cable Loss (for RF conducted test):	5.8G: 1.9dB

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

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	DJI	QC24-CN	N/A



**4.3 Measurement Uncertainty**

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

Remark:  
 The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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.



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### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

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

#### • VCCI (Member No. 1937)

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

#### • FCC –Designation Number: CN1336

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

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

#### • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.9dBi.

Antenna location: Refer to internal photo.



### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

#### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details: SDR chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

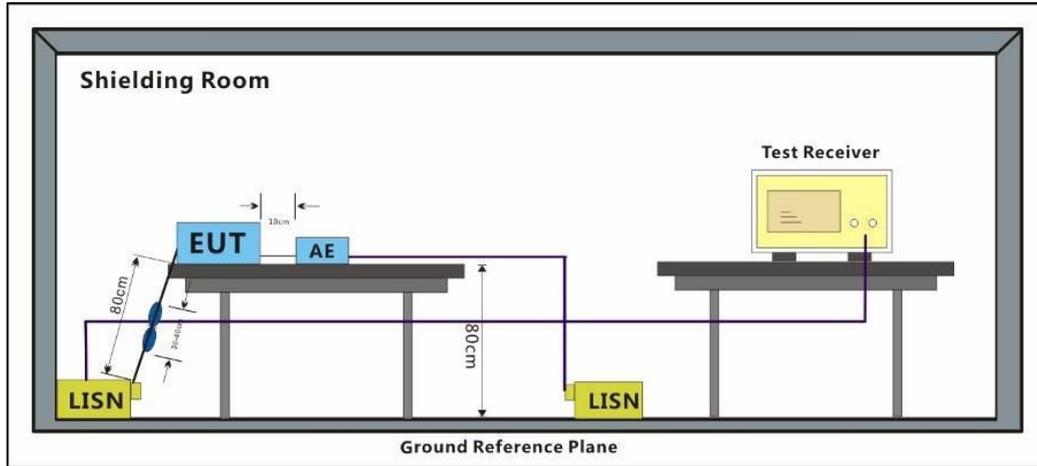
Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

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

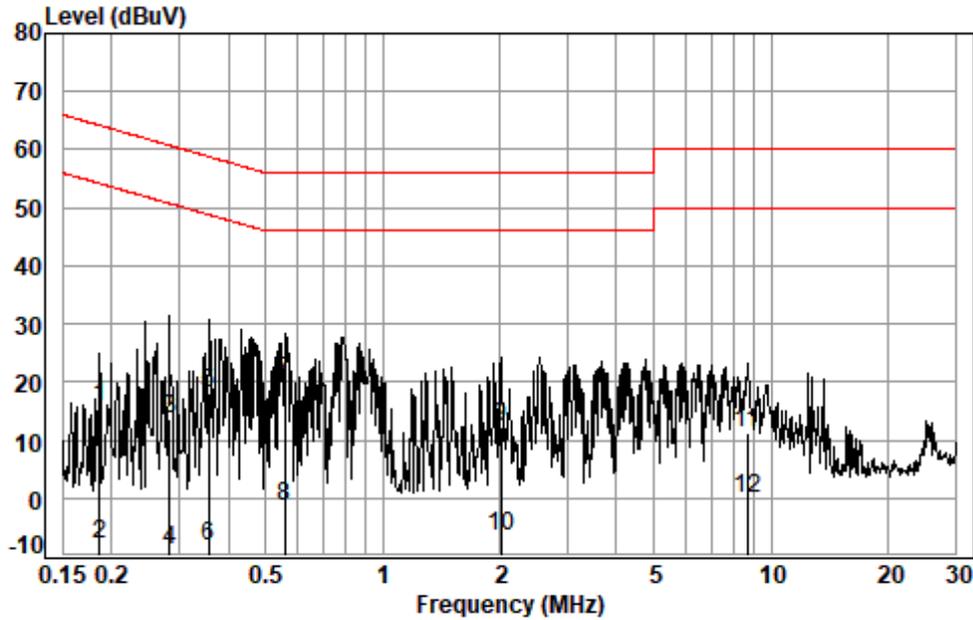
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 07; Line: Live line



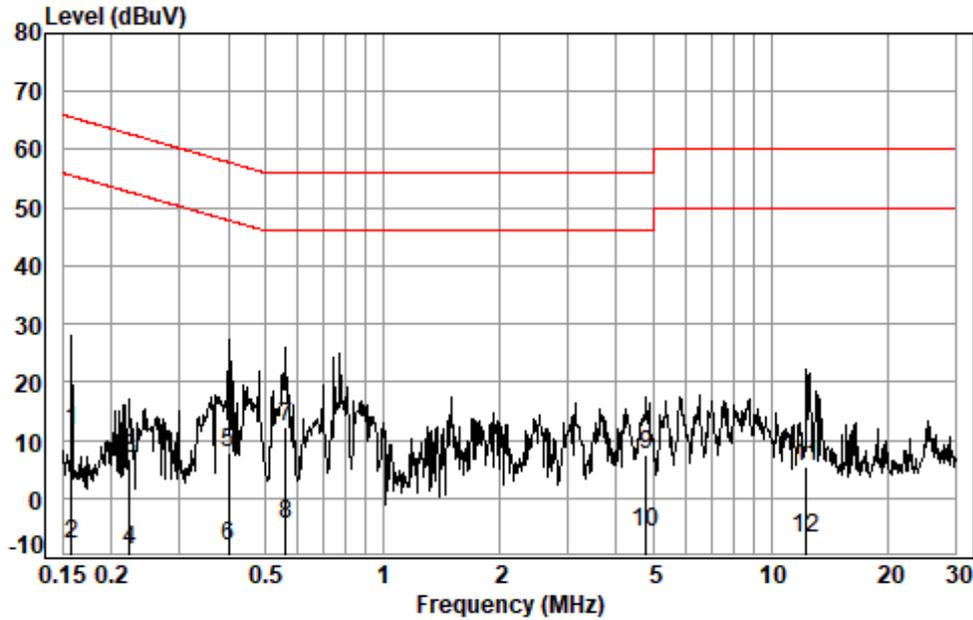
Site : Shielding Room  
 Condition: Line  
 Job No. : 02498AT  
 Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1864	0.02	9.92	5.57	15.51	64.20	-48.69	QP
2	0.1864	0.02	9.92	-17.91	-7.97	54.20	-62.17	Average
3	0.2818	0.03	10.00	3.65	13.68	60.76	-47.08	QP
4	0.2818	0.03	10.00	-18.92	-8.89	50.76	-59.65	Average
5	0.3558	0.03	10.03	7.83	17.89	58.83	-40.94	QP
6	0.3558	0.03	10.03	-18.34	-8.28	48.83	-57.11	Average
7 *	0.5581	0.04	9.98	9.95	19.97	56.00	-36.03	QP
8 *	0.5581	0.04	9.98	-11.38	-1.36	46.00	-47.36	Average
9	2.0225	0.07	10.01	2.26	12.34	56.00	-43.66	QP
10	2.0225	0.07	10.01	-16.61	-6.53	46.00	-52.53	Average
11	8.6832	0.15	10.20	0.83	11.18	60.00	-48.82	QP
12	8.6832	0.15	10.20	-10.27	0.08	50.00	-49.92	Average



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Test Mode: 07; Line: Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 02498AT  
 Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.02	9.89	1.67	11.58	65.56	-53.98	QP
2	0.1582	0.02	9.89	-17.87	-7.96	55.56	-63.52	Average
3	0.2232	0.03	9.92	-3.06	6.89	62.70	-55.81	QP
4	0.2232	0.03	9.92	-18.93	-8.98	52.70	-61.68	Average
5	0.4019	0.03	9.92	-2.32	7.63	57.81	-50.18	QP
6	0.4019	0.03	9.92	-18.29	-8.34	47.81	-56.15	Average
7 *	0.5611	0.04	9.96	2.28	12.28	56.00	-43.72	QP
8 *	0.5611	0.04	9.96	-14.64	-4.64	46.00	-50.64	Average
9	4.7716	0.09	10.01	-2.80	7.30	56.00	-48.70	QP
10	4.7716	0.09	10.01	-15.99	-5.89	46.00	-51.89	Average
11	12.3182	0.20	10.26	-5.04	5.42	60.00	-54.58	QP
12	12.3182	0.20	10.26	-17.30	-6.84	50.00	-56.84	Average



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**7.2 Maximum Conducted output power**

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

**7.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

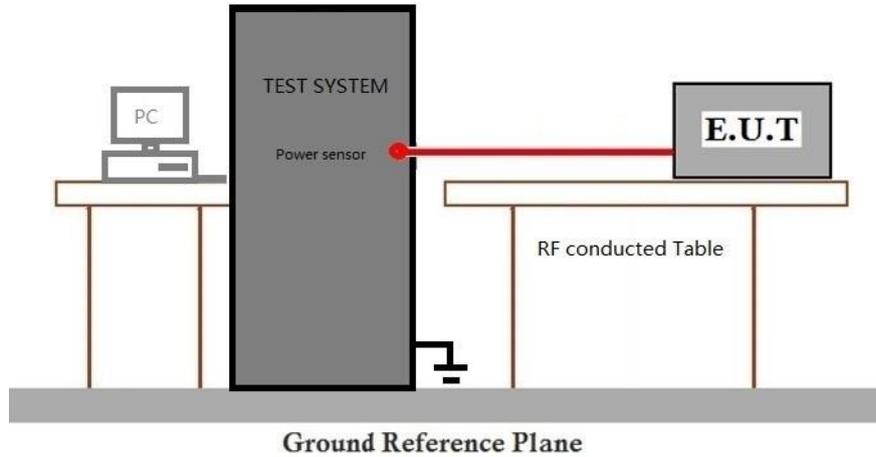
**7.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



**7.3 Radiated Emissions (Below 1GHz)**

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

**7.3.2 Test Mode Description**

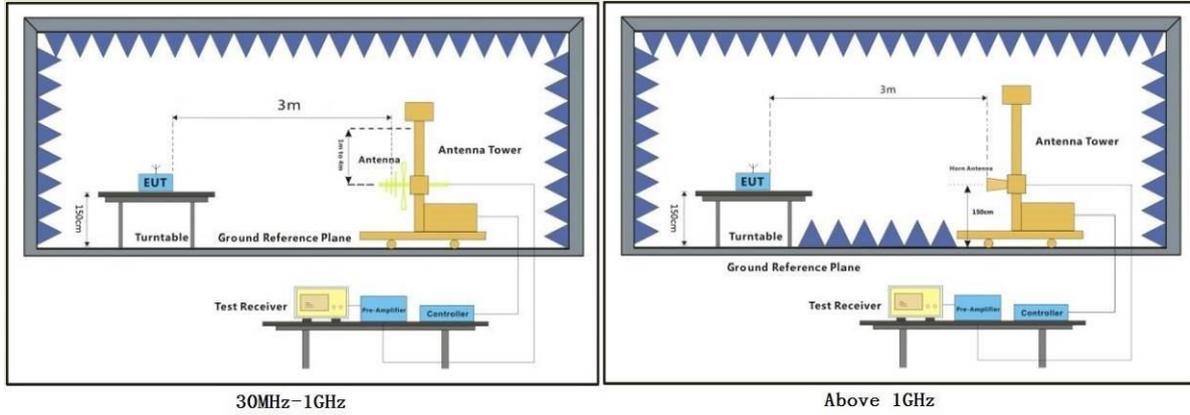
Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.3.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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### 7.3.4 Measurement Procedure and Data

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

Remark:

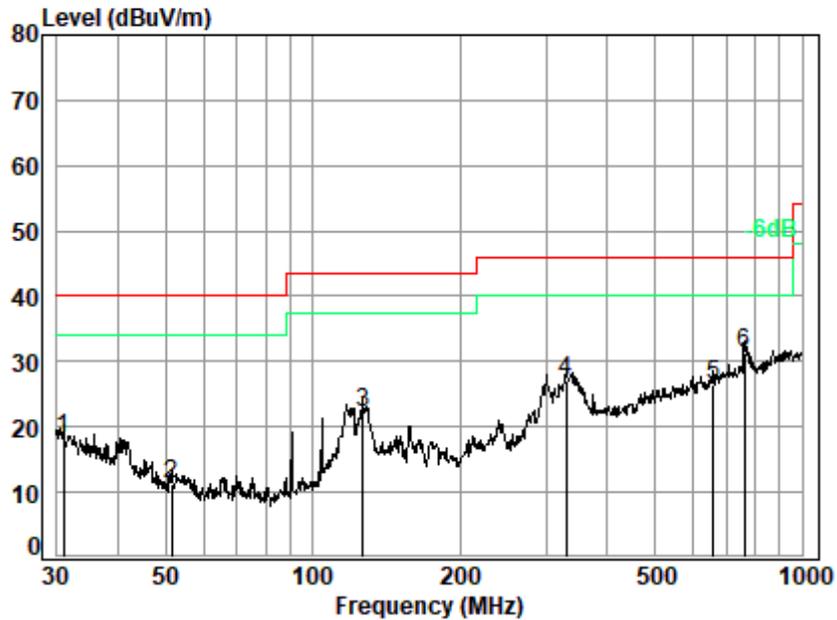
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



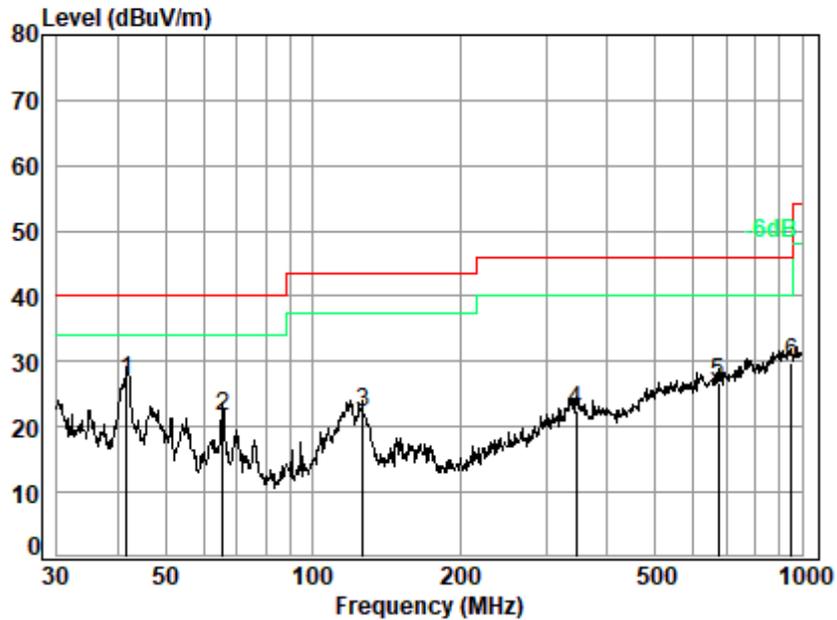
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 02498AT/02499AT  
 Test Mode: 07

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	20.76	0.65	27.79	24.66	40.00	-21.72 QP
2	51.48	12.53	0.84	27.73	25.63	40.00	-28.73 QP
3	126.33	10.98	1.33	27.48	37.39	43.50	-21.28 QP
4	330.19	18.71	2.28	26.87	32.81	46.00	-19.07 QP
5	658.84	25.15	3.39	27.83	25.80	46.00	-19.49 QP
6 q	760.70	26.47	3.70	27.58	28.64	46.00	-14.77 QP



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 02498AT/02499AT  
 Test Mode: 07

	Ant	Cable	Preamp	Read	Limit	Over			
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	41.71	15.55	0.76	27.76	38.51	27.06	40.00	-12.94	QP
2	65.57	10.97	0.96	27.69	37.35	21.59	40.00	-18.41	QP
3	126.33	10.98	1.33	27.48	37.31	22.14	43.50	-21.36	QP
4	345.60	19.58	2.34	26.94	27.57	22.55	46.00	-23.45	QP
5	672.84	25.64	3.43	27.79	25.57	26.85	46.00	-19.15	QP
6	952.09	28.17	4.23	26.39	23.80	29.81	46.00	-16.19	QP



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**7.4 Radiated Emissions (Above 1GHz)**

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) 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.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p>		

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.3 °C Humidity: 67.0 % RH Atmospheric Pressure: 1020 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and



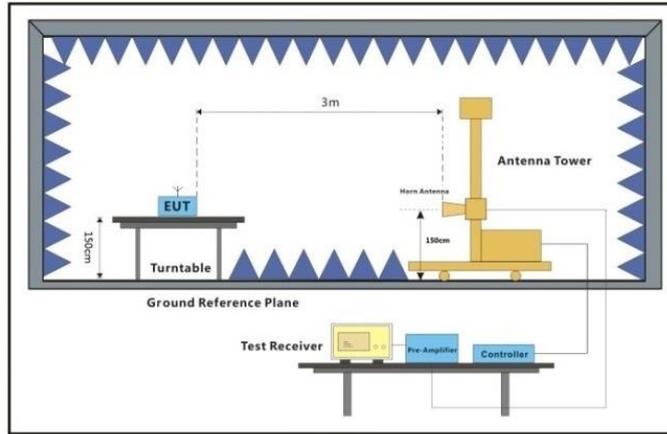
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

		found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.4.3 Test Setup Diagram



Above 1GHz



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**7.4.4 Measurement Procedure and Data**

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

Remark:

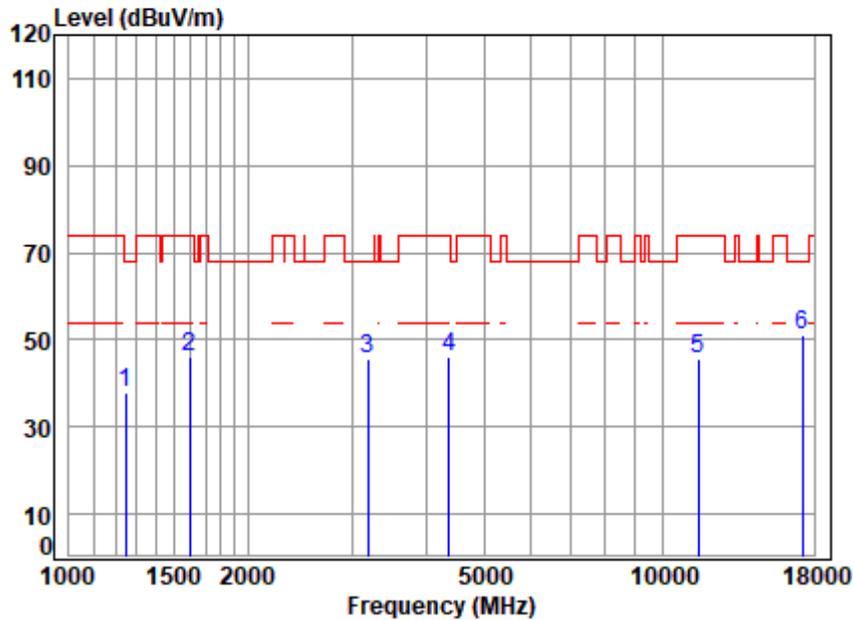
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11A

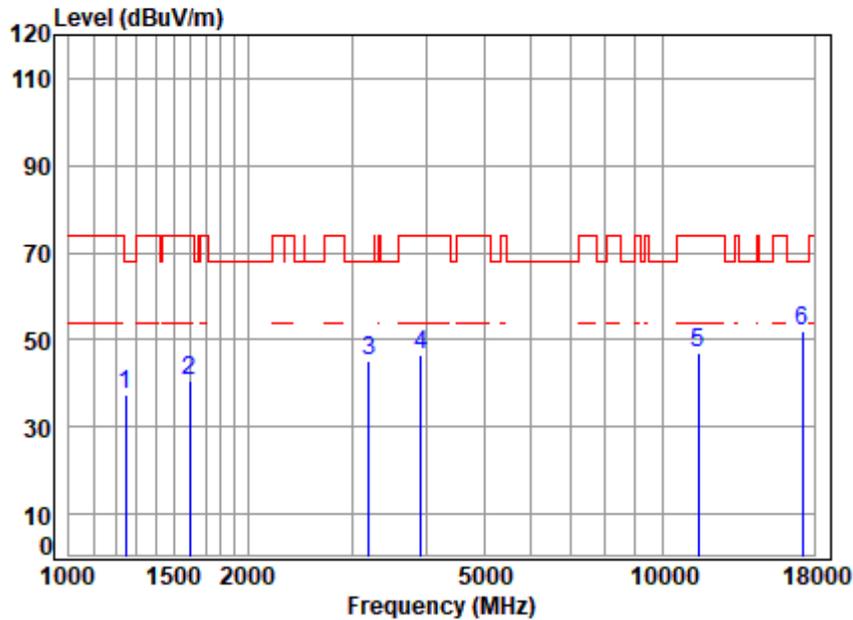
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	10.15	25.04	61.57	64.28	37.90	68.20	-30.30	peak
2	1597.181	10.22	26.81	61.69	70.57	45.91	74.00	-28.09	peak
3	3186.869	10.54	32.79	61.37	63.74	45.70	68.20	-22.50	peak
4	4367.058	10.77	34.54	61.51	62.30	46.10	74.00	-27.90	peak
5	11490.000	12.07	37.79	62.62	58.48	45.72	74.00	-28.28	peak
6	p17235.000	15.02	43.03	61.65	54.79	51.19	68.20	-17.01	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



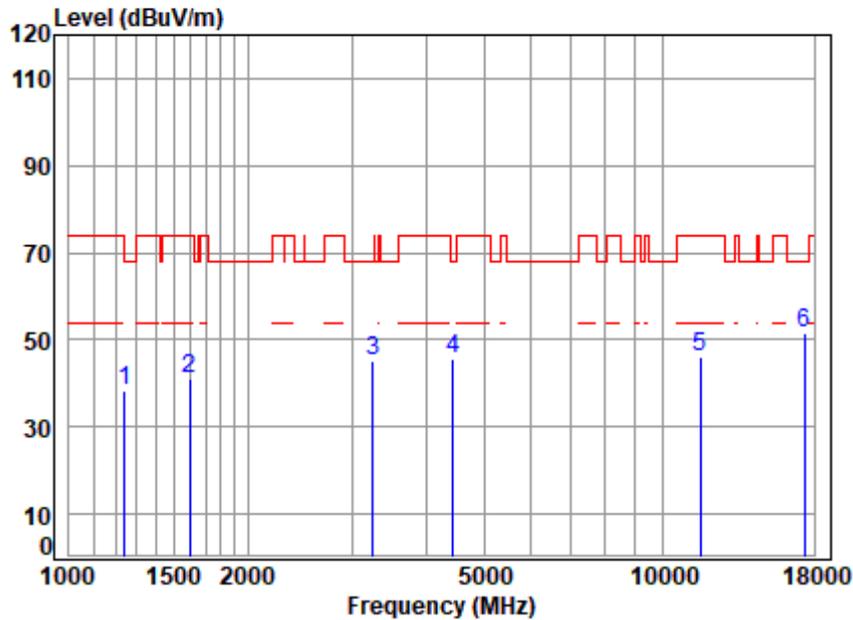
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	10.15	25.04	61.57	63.75	37.37	68.20	-30.83	peak
2	1597.181	10.22	26.81	61.69	65.26	40.60	74.00	-33.40	peak
3	3196.094	10.54	32.87	61.36	63.04	45.09	68.20	-23.11	peak
4	3912.809	10.68	33.72	61.19	63.50	46.71	74.00	-27.29	peak
5	11490.000	12.07	37.79	62.62	59.73	46.97	74.00	-27.03	peak
6	p17235.000	15.02	43.03	61.65	55.62	52.02	68.20	-16.18	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



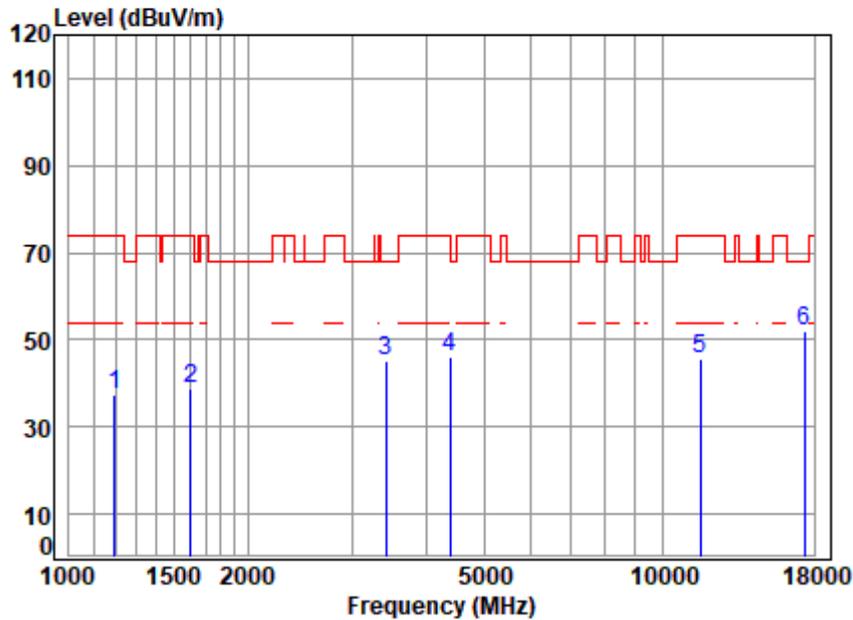
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	10.15	24.99	61.57	64.72	38.29	68.20	-29.91	peak
2	1597.181	10.22	26.81	61.69	65.67	41.01	74.00	-32.99	peak
3	3252.005	10.55	32.06	61.35	64.14	45.40	68.20	-22.80	peak
4	4443.453	10.79	34.28	61.58	62.03	45.52	68.20	-22.68	peak
5	11570.000	12.18	37.73	62.64	58.82	46.09	74.00	-27.91	peak
6	p17355.000	15.16	43.26	61.53	54.72	51.61	68.20	-16.59	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11A

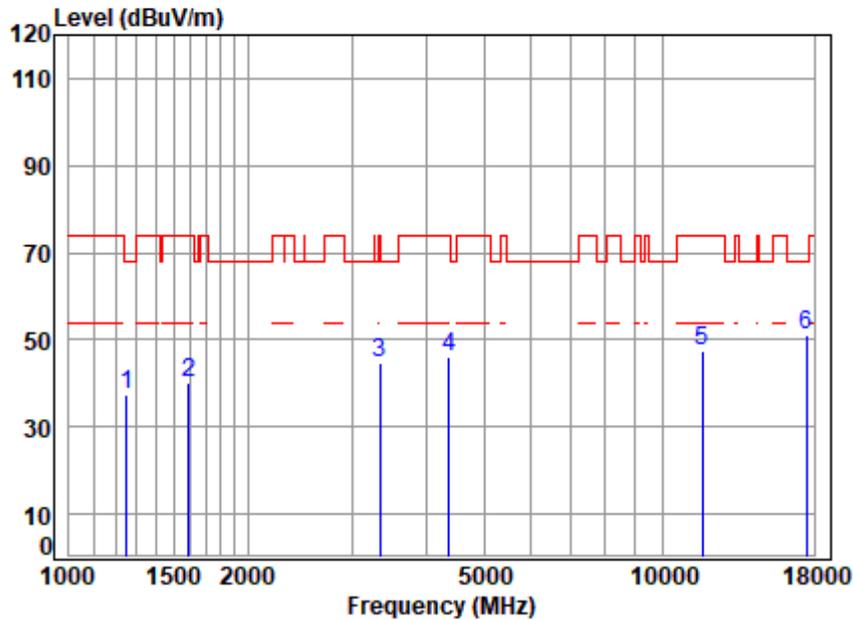
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	10.14	24.33	61.55	64.55	37.47	74.00	-36.53 peak
2	1606.441	10.22	26.74	61.69	63.73	39.00	74.00	-35.00 peak
3	3425.675	10.59	32.09	61.30	63.96	45.34	68.20	-22.86 peak
4	4379.699	10.78	34.64	61.52	61.97	45.87	74.00	-28.13 peak
5	11570.000	12.18	37.73	62.64	58.53	45.80	74.00	-28.20 peak
6	p17355.000	15.16	43.26	61.53	55.13	52.02	68.20	-16.18 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11A

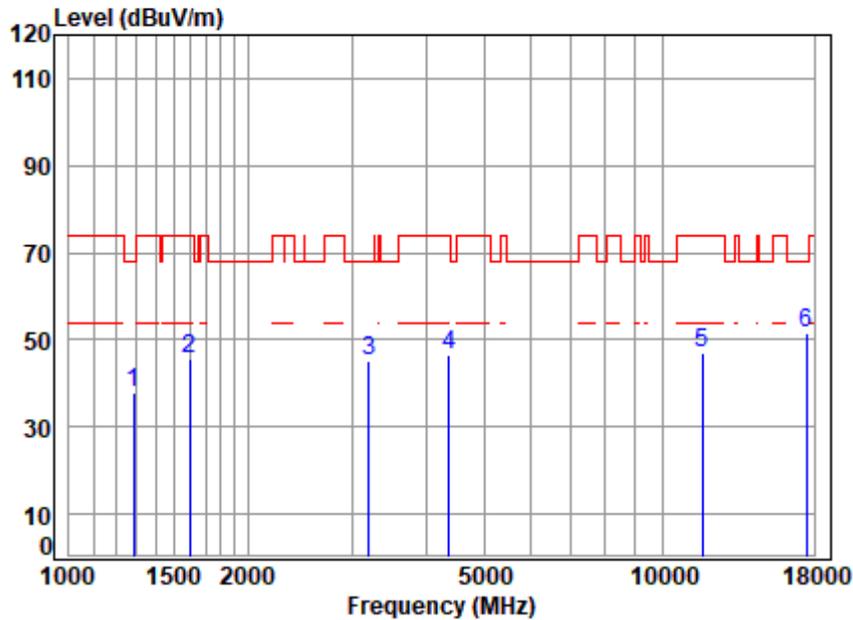
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	10.15	25.09	61.57	63.70	37.37	68.20	-30.83	peak
2	1592.571	10.22	26.83	61.68	64.71	40.08	74.00	-33.92	peak
3	3347.371	10.57	32.05	61.32	63.56	44.86	74.00	-29.14	peak
4	4367.058	10.77	34.54	61.51	62.40	46.20	74.00	-27.80	peak
5	11650.000	12.28	37.80	62.65	60.17	47.60	74.00	-26.40	peak
6	p17475.000	15.30	43.40	61.41	53.99	51.28	68.20	-16.92	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



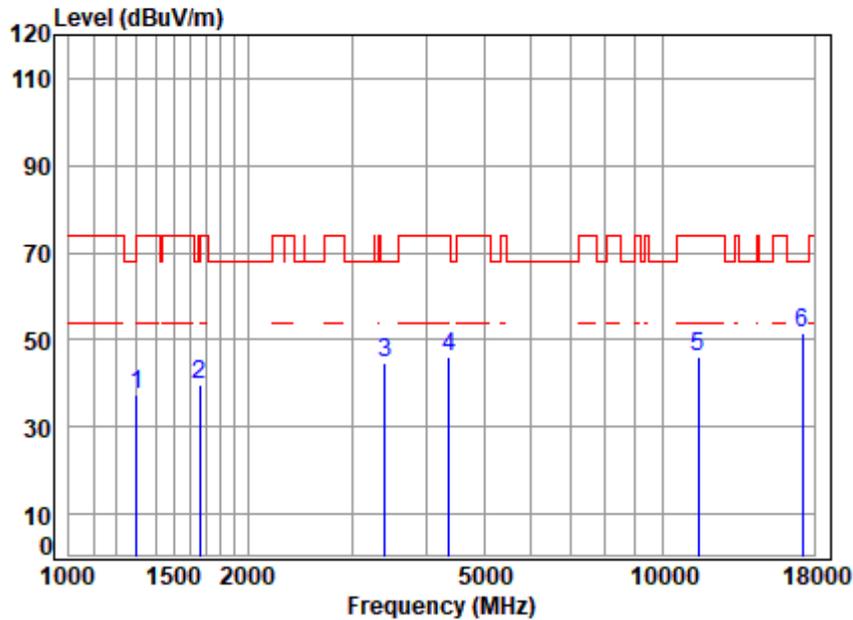
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	10.16	24.88	61.59	64.37	37.82	68.20	-30.38	peak
2	1597.181	10.22	26.81	61.69	70.32	45.66	74.00	-28.34	peak
3	3205.345	10.54	32.81	61.36	63.10	45.09	68.20	-23.11	peak
4	4367.058	10.77	34.54	61.51	62.84	46.64	74.00	-27.36	peak
5	11650.000	12.28	37.80	62.65	59.73	47.16	74.00	-26.84	peak
6	p17475.000	15.30	43.40	61.41	54.08	51.37	68.20	-16.83	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



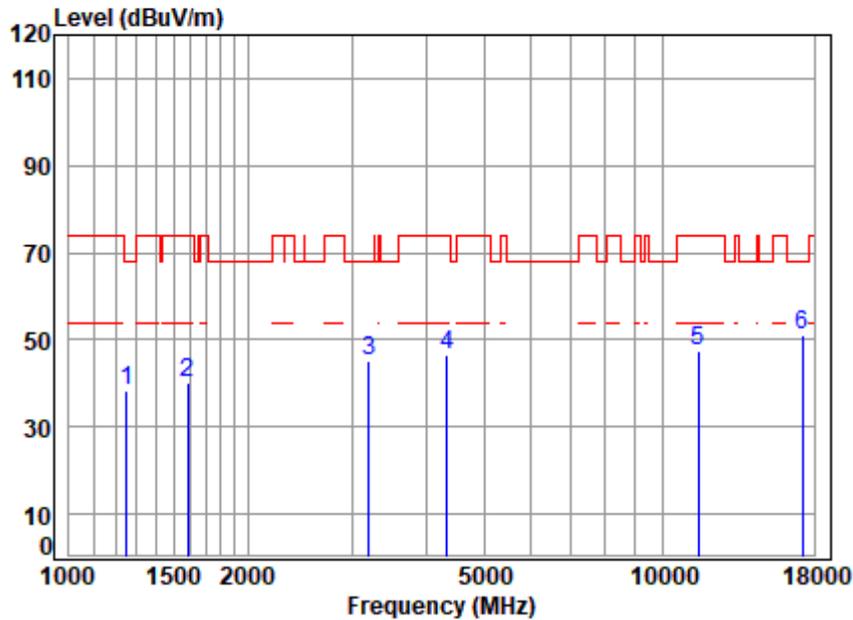
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	10.16	24.79	61.59	64.07	37.43	74.00	-36.57	peak
2	1663.137	10.24	26.27	61.70	64.88	39.69	74.00	-34.31	peak
3	3405.929	10.58	32.33	61.31	63.04	44.64	68.20	-23.56	peak
4	4367.058	10.77	34.54	61.51	62.41	46.21	74.00	-27.79	peak
5	11490.000	12.07	37.79	62.62	58.98	46.22	74.00	-27.78	peak
6	p17235.000	15.02	43.03	61.65	55.33	51.73	68.20	-16.47	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



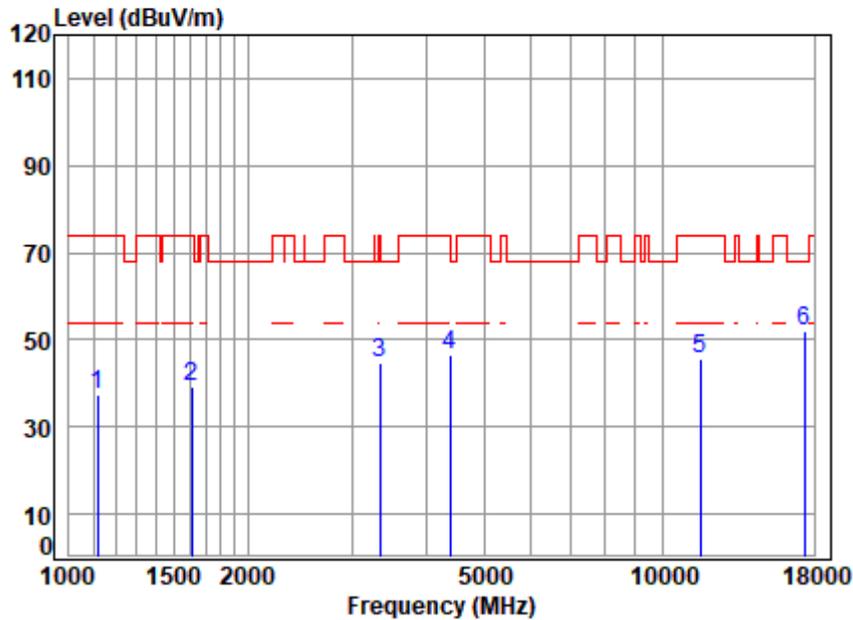
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	10.16	25.08	61.57	64.77	38.44	68.20	-29.76	peak
2	1583.392	10.22	26.87	61.68	64.53	39.94	74.00	-34.06	peak
3	3205.345	10.54	32.81	61.36	62.98	44.97	68.20	-23.23	peak
4	4329.354	10.77	34.23	61.48	62.81	46.33	74.00	-27.67	peak
5	11490.000	12.07	37.79	62.62	60.22	47.46	74.00	-26.54	peak
6	p17235.000	15.02	43.03	61.65	54.92	51.32	68.20	-16.88	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



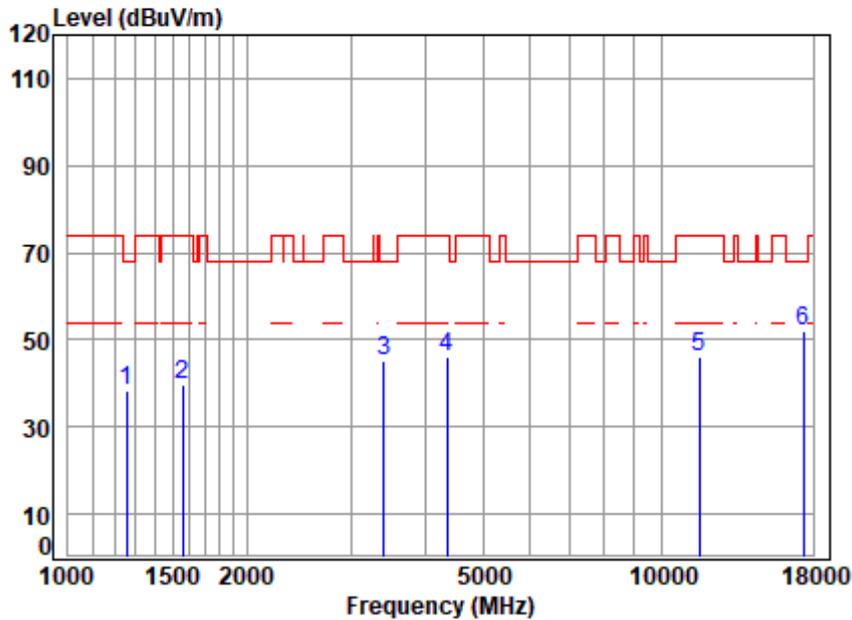
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1119.323	10.13	23.78	61.52	64.99	37.38	74.00	-36.62 peak
2	1611.091	10.22	26.69	61.69	63.90	39.12	74.00	-34.88 peak
3	3337.710	10.57	31.88	61.33	63.62	44.74	74.00	-29.26 peak
4	4379.699	10.78	34.64	61.52	62.86	46.76	74.00	-27.24 peak
5	11570.000	12.18	37.73	62.64	58.34	45.61	74.00	-28.39 peak
6	p17355.000	15.16	43.26	61.53	54.93	51.82	68.20	-16.38 peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



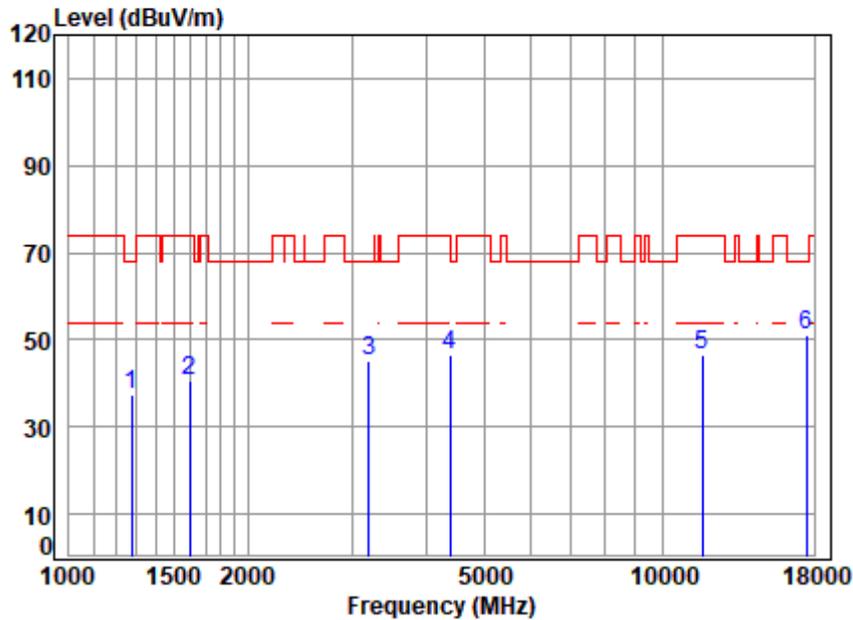
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	10.16	25.06	61.58	64.58	38.22	68.20	-29.98	peak
2	1560.673	10.21	26.96	61.68	64.33	39.82	74.00	-34.18	peak
3	3405.929	10.58	32.33	61.31	63.50	45.10	68.20	-23.10	peak
4	4354.454	10.77	34.44	61.50	62.20	45.91	74.00	-28.09	peak
5	11570.000	12.18	37.73	62.64	59.00	46.27	74.00	-27.73	peak
6	p17355.000	15.16	43.26	61.53	54.94	51.83	68.20	-16.37	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



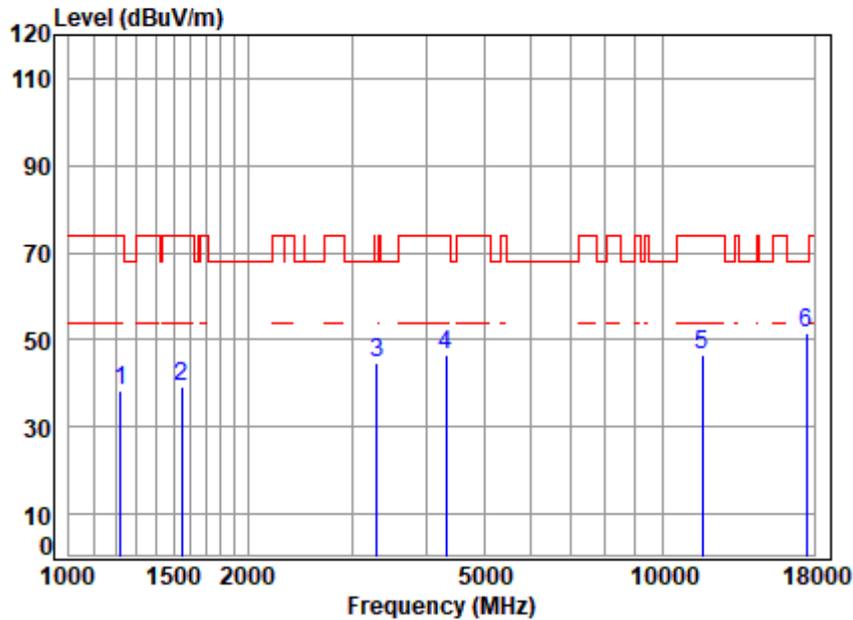
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	10.16	24.95	61.58	64.07	37.60	68.20	-30.60	peak
2	1597.181	10.22	26.81	61.69	65.24	40.58	74.00	-33.42	peak
3	3196.094	10.54	32.87	61.36	63.19	45.24	68.20	-22.96	peak
4	4379.699	10.78	34.64	61.52	62.65	46.55	74.00	-27.45	peak
5	11650.000	12.28	37.80	62.65	59.01	46.44	74.00	-27.56	peak
6	p17475.000	15.30	43.40	61.41	53.89	51.18	68.20	-17.02	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11N20

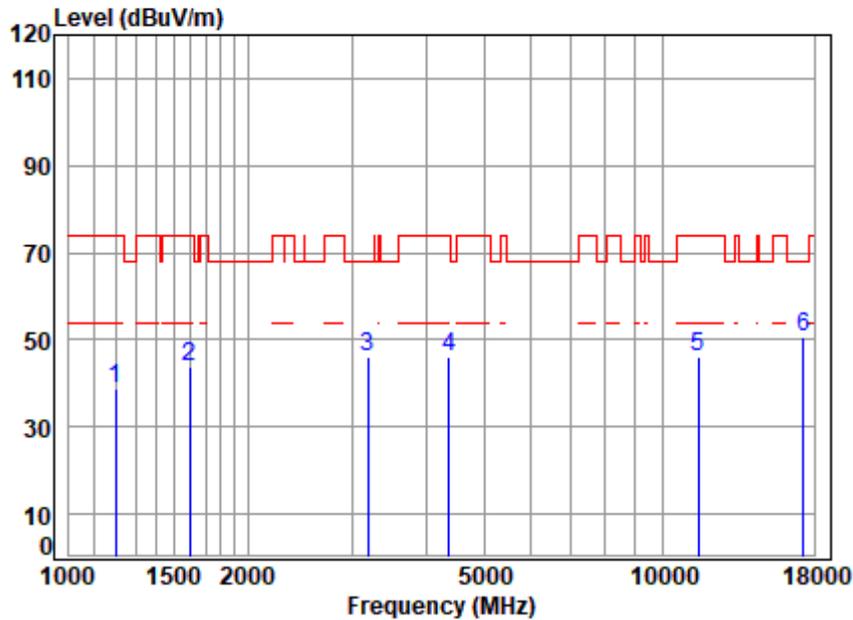
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	10.15	24.74	61.56	64.97	38.30	74.00	-35.70	peak
2	1547.199	10.21	26.99	61.67	63.70	39.23	74.00	-34.77	peak
3	3308.894	10.56	31.36	61.33	64.32	44.91	68.20	-23.29	peak
4	4316.859	10.76	34.13	61.47	63.25	46.67	74.00	-27.33	peak
5	11650.000	12.28	37.80	62.65	59.03	46.46	74.00	-27.54	peak
6	p17475.000	15.30	43.40	61.41	54.42	51.71	68.20	-16.49	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11N40

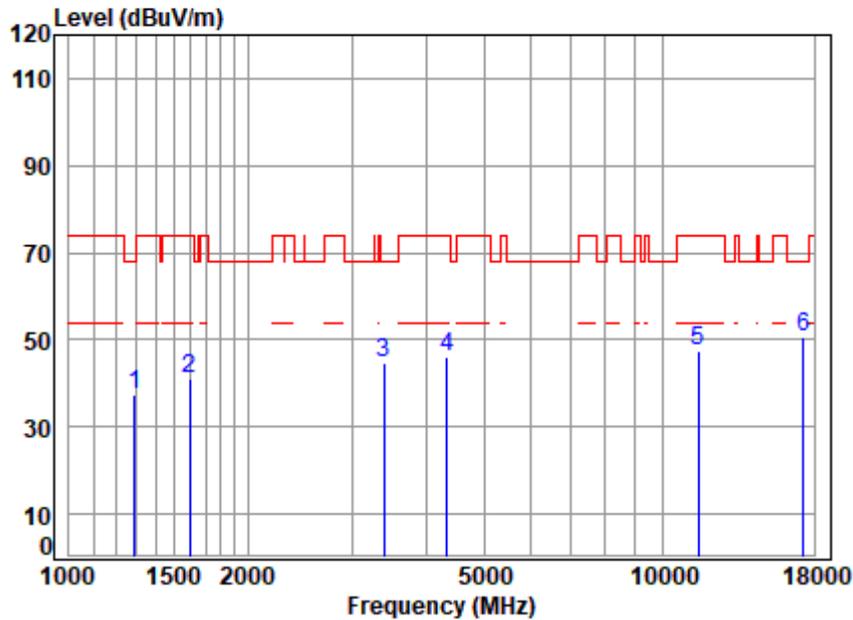
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	10.14	24.36	61.55	65.92	38.87	74.00	-35.13	peak
2	1597.181	10.22	26.81	61.69	68.41	43.75	74.00	-30.25	peak
3	3186.869	10.54	32.79	61.37	64.09	46.05	68.20	-22.15	peak
4	4367.058	10.77	34.54	61.51	62.36	46.16	74.00	-27.84	peak
5	11510.000	12.09	37.79	62.62	58.70	45.96	74.00	-28.04	peak
6	p17265.000	15.05	43.06	61.62	54.26	50.75	68.20	-17.45	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



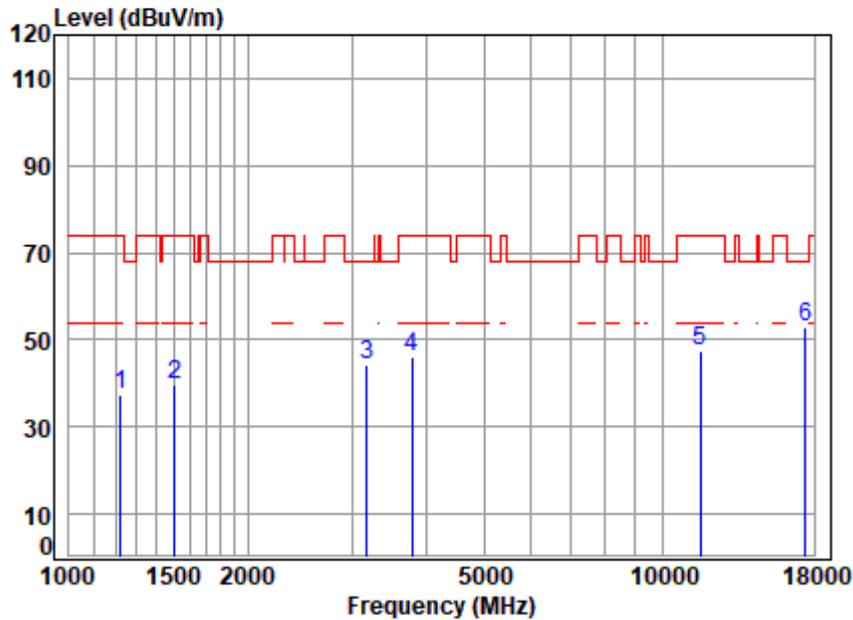
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	10.16	24.86	61.59	63.90	37.33	68.20	-30.87	peak
2	1597.181	10.22	26.81	61.69	65.91	41.25	74.00	-32.75	peak
3	3396.098	10.58	32.38	61.31	63.16	44.81	68.20	-23.39	peak
4	4329.354	10.77	34.23	61.48	62.52	46.04	74.00	-27.96	peak
5	11510.000	12.09	37.79	62.62	60.09	47.35	74.00	-26.65	peak
6	p17265.000	15.05	43.06	61.62	54.31	50.80	68.20	-17.40	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 TX RSE  
 Note : 5G WIFI 11N40

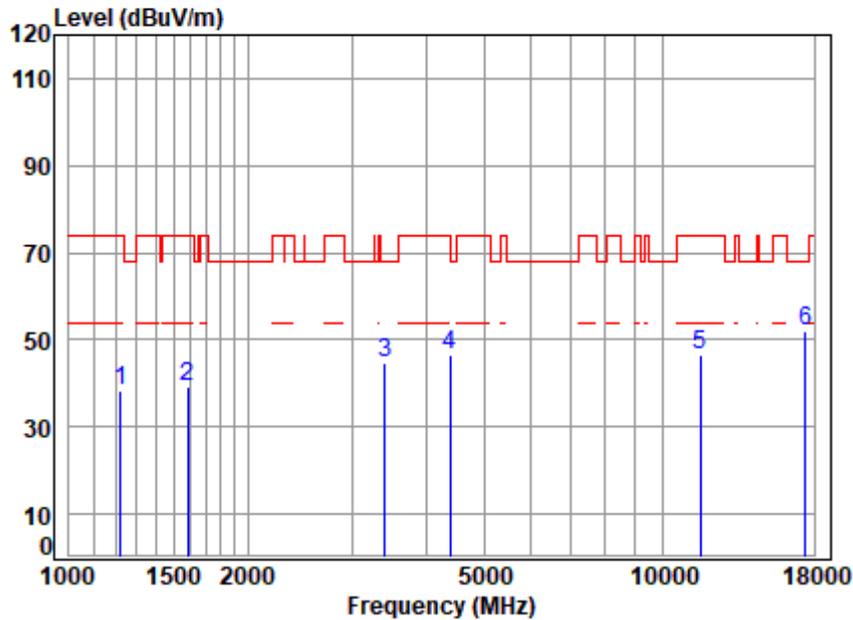
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	10.15	24.74	61.56	64.06	37.39	74.00	-36.61	peak
2	1507.470	10.20	26.83	61.66	64.16	39.53	74.00	-34.47	peak
3	3177.672	10.54	32.72	61.37	62.26	44.15	68.20	-24.05	peak
4	3790.361	10.66	32.50	61.22	64.07	46.01	74.00	-27.99	peak
5	11590.000	12.20	37.71	62.64	60.19	47.46	74.00	-26.54	peak
6	p17385.000	15.20	43.35	61.50	55.69	52.74	68.20	-15.46	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 TX RSE  
 Note : 5G WIFI 11N40

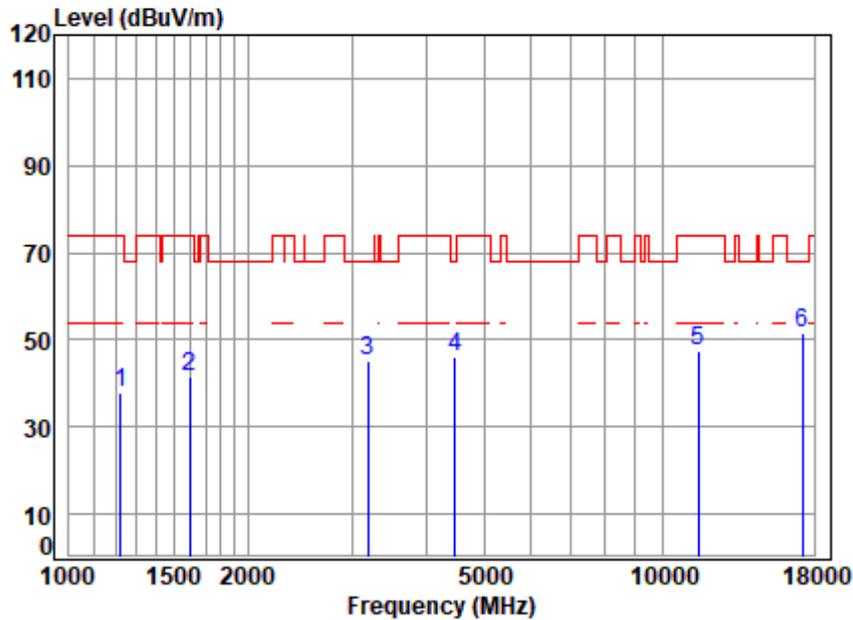
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	10.15	24.74	61.56	65.11	38.44	74.00	-35.56	peak
2	1587.975	10.22	26.85	61.68	64.03	39.42	74.00	-34.58	peak
3	3405.929	10.58	32.33	61.31	63.23	44.83	68.20	-23.37	peak
4	4379.699	10.78	34.64	61.52	62.86	46.76	74.00	-27.24	peak
5	11590.000	12.20	37.71	62.64	59.38	46.65	74.00	-27.35	peak
6	p17385.000	15.20	43.35	61.50	55.03	52.08	68.20	-16.12	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



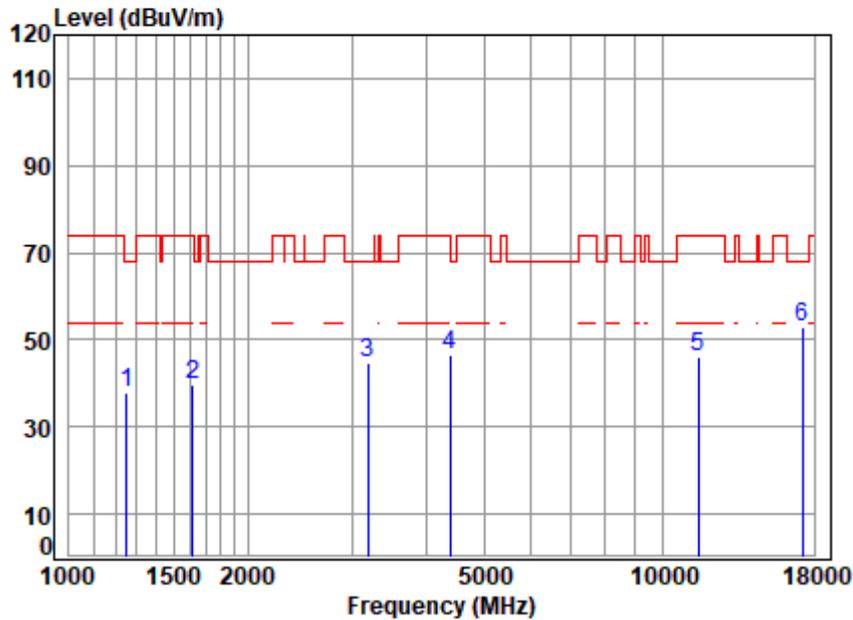
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	10.15	24.74	61.56	64.36	37.69	74.00	-36.31	peak
2	1597.181	10.22	26.81	61.69	66.08	41.42	74.00	-32.58	peak
3	3186.869	10.54	32.79	61.37	63.30	45.26	68.20	-22.94	peak
4	4469.214	10.79	33.97	61.60	62.91	46.07	68.20	-22.13	peak
5	11490.000	12.07	37.79	62.62	60.23	47.47	74.00	-26.53	peak
6	p17235.000	15.02	43.03	61.65	55.33	51.73	68.20	-16.47	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 TX RSE  
 Note : 5G WIFI 11AC20

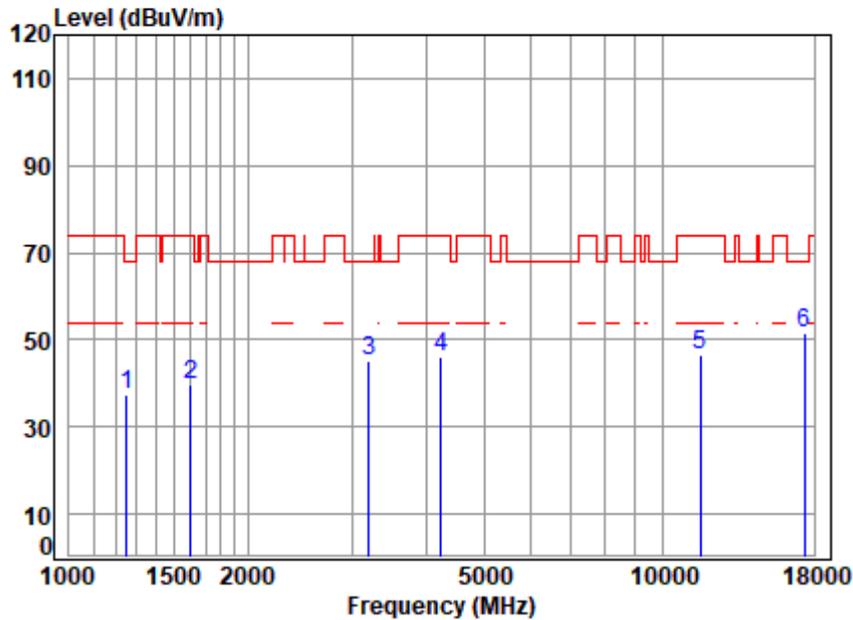
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	10.15	25.09	61.57	64.36	38.03	68.20	-30.17	peak
2	1615.754	10.23	26.64	61.69	64.59	39.77	74.00	-34.23	peak
3	3186.869	10.54	32.79	61.37	62.84	44.80	68.20	-23.40	peak
4	4392.376	10.78	34.74	61.53	62.49	46.48	74.00	-27.52	peak
5	11490.000	12.07	37.79	62.62	58.87	46.11	74.00	-27.89	peak
6	p17235.000	15.02	43.03	61.65	56.39	52.79	68.20	-15.41	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11AC20

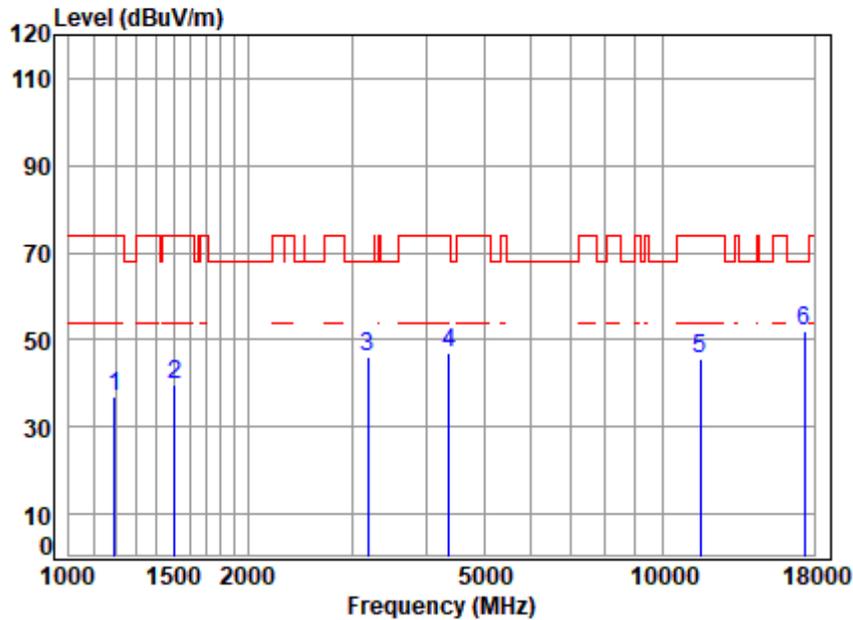
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	10.15	25.09	61.57	63.85	37.52	68.20	-30.68	peak
2	1601.804	10.22	26.78	61.69	64.57	39.88	74.00	-34.12	peak
3	3196.094	10.54	32.87	61.36	63.18	45.23	68.20	-22.97	peak
4	4230.396	10.75	33.80	61.39	62.78	45.94	74.00	-28.06	peak
5	11570.000	12.18	37.73	62.64	59.08	46.35	74.00	-27.65	peak
6	p17355.000	15.16	43.26	61.53	54.71	51.60	68.20	-16.60	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: middle



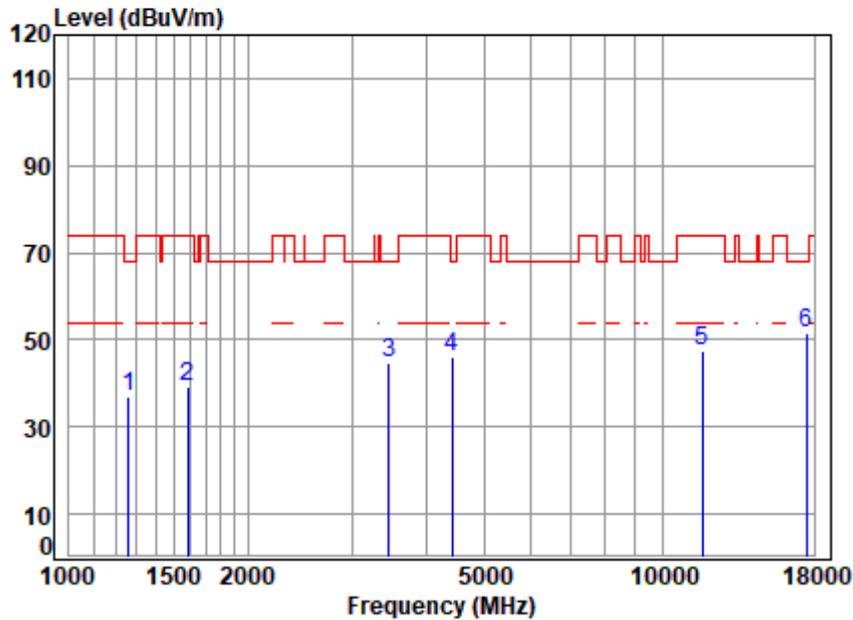
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5785 TX RSE  
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	10.14	24.33	61.55	64.14	37.06	74.00	-36.94	peak
2	1507.470	10.20	26.83	61.66	64.29	39.66	74.00	-34.34	peak
3	3186.869	10.54	32.79	61.37	64.16	46.12	68.20	-22.08	peak
4	4367.058	10.77	34.54	61.51	63.25	47.05	74.00	-26.95	peak
5	11570.000	12.18	37.73	62.64	58.40	45.67	74.00	-28.33	peak
6	p17355.000	15.16	43.26	61.53	55.35	52.24	68.20	-15.96	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



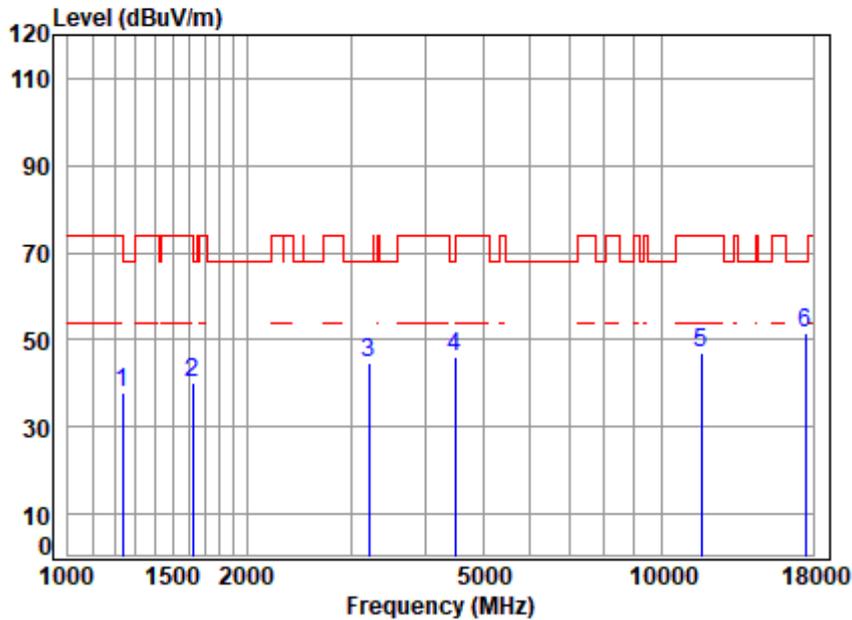
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	10.16	25.04	61.58	63.42	37.04	68.20	-31.16	peak
2	1583.392	10.22	26.87	61.68	63.80	39.21	74.00	-34.79	peak
3	3465.510	10.59	31.74	61.29	63.59	44.63	68.20	-23.57	peak
4	4417.841	10.78	34.59	61.56	62.17	45.98	68.20	-22.22	peak
5	11650.000	12.28	37.80	62.65	60.11	47.54	74.00	-26.46	peak
6	p17475.000	15.30	43.40	61.41	54.14	51.43	68.20	-16.77	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



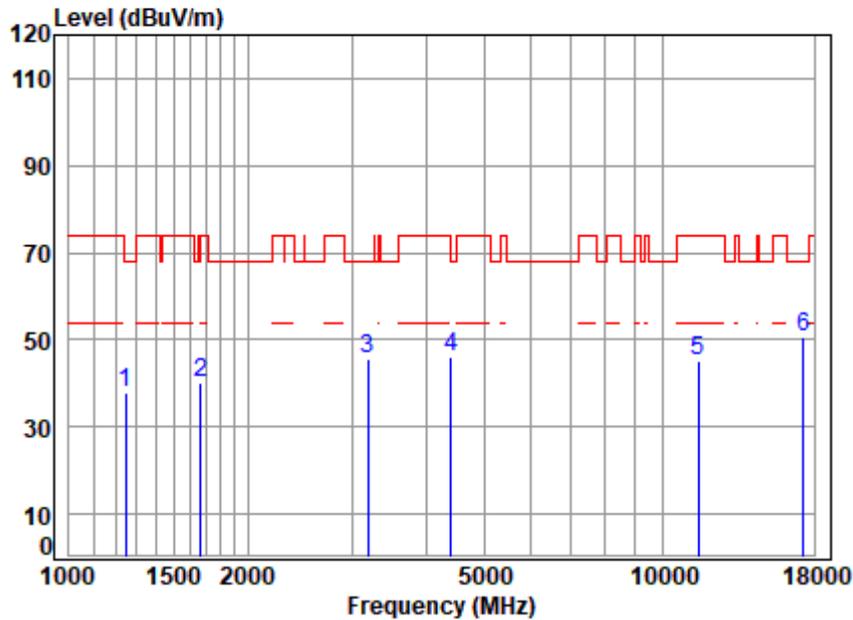
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 TX RSE  
 Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	10.15	24.94	61.57	64.56	38.08	74.00	-35.92	peak
2	1625.121	10.23	26.55	61.69	64.92	40.01	74.00	-33.99	peak
3	3214.623	10.54	32.67	61.36	63.07	44.92	68.20	-23.28	peak
4	4482.150	10.80	33.81	61.61	63.15	46.15	68.20	-22.05	peak
5	11650.000	12.28	37.80	62.65	59.39	46.82	74.00	-27.18	peak
6	p17475.000	15.30	43.40	61.41	54.19	51.48	68.20	-16.72	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



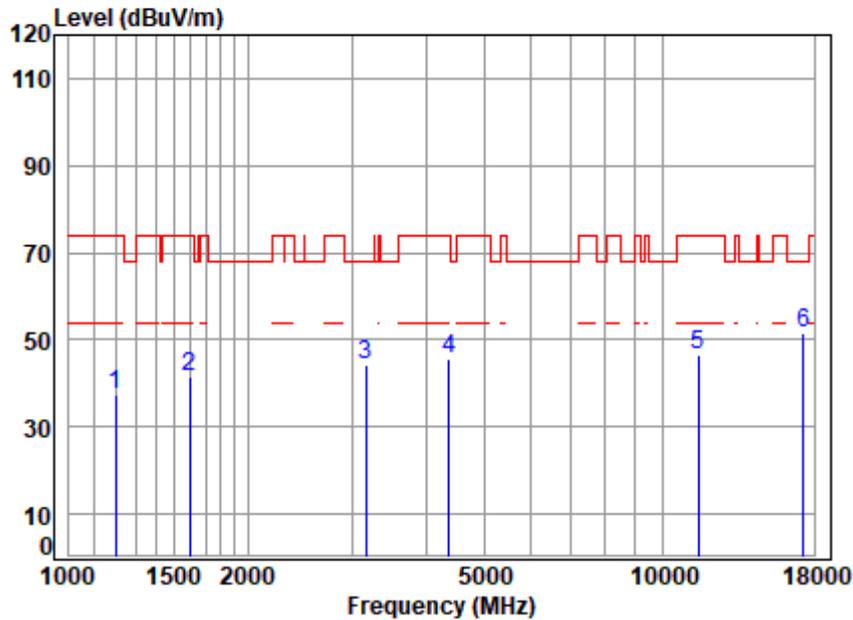
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	10.15	25.04	61.57	64.39	38.01	68.20	-30.19	peak
2	1667.951	10.24	26.26	61.71	65.20	39.99	74.00	-34.01	peak
3	3186.869	10.54	32.79	61.37	63.88	45.84	68.20	-22.36	peak
4	4405.090	10.78	34.74	61.55	62.28	46.25	68.20	-21.95	peak
5	11510.000	12.09	37.79	62.62	57.90	45.16	74.00	-28.84	peak
6	p17265.000	15.05	43.06	61.62	54.22	50.71	68.20	-17.49	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 TX RSE  
 Note : 5G WIFI 11AC40

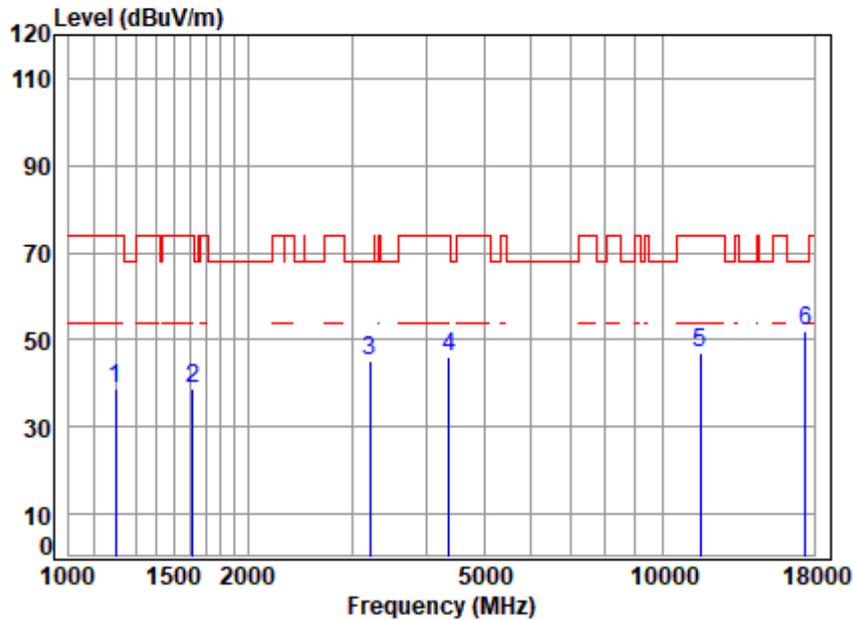
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	10.14	24.40	61.55	64.22	37.21	74.00	-36.79	peak
2	1597.181	10.22	26.81	61.69	65.99	41.33	74.00	-32.67	peak
3	3168.500	10.54	32.65	61.37	62.62	44.44	68.20	-23.76	peak
4	4367.058	10.77	34.54	61.51	61.99	45.79	74.00	-28.21	peak
5	11510.000	12.09	37.79	62.62	59.21	46.47	74.00	-27.53	peak
6	p17265.000	15.05	43.06	61.62	55.05	51.54	68.20	-16.66	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



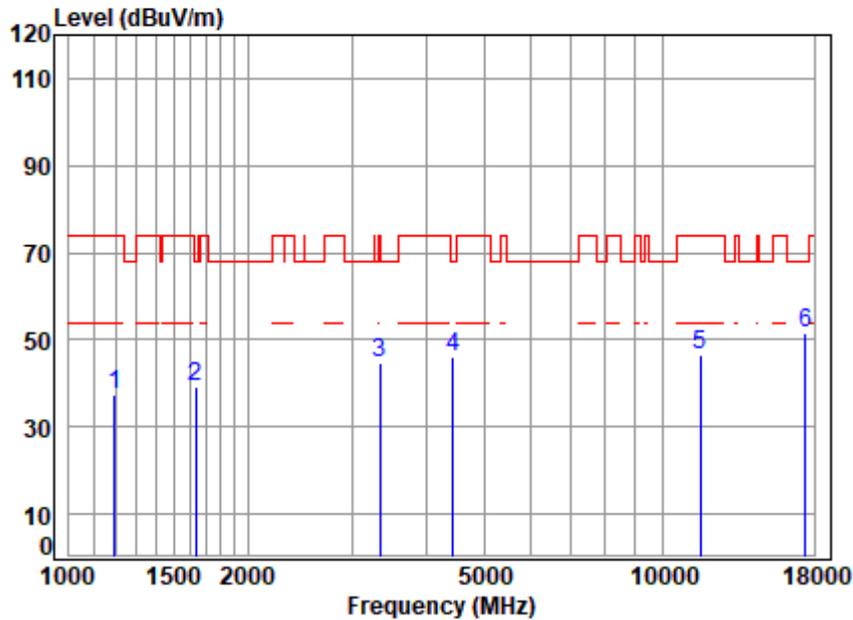
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 TX RSE  
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	10.14	24.36	61.55	65.72	38.67	74.00	-35.33	peak
2	1615.754	10.23	26.64	61.69	63.80	38.98	74.00	-35.02	peak
3	3214.623	10.54	32.67	61.36	63.30	45.15	68.20	-23.05	peak
4	4367.058	10.77	34.54	61.51	62.07	45.87	74.00	-28.13	peak
5	11590.000	12.20	37.71	62.64	59.74	47.01	74.00	-26.99	peak
6	p17385.000	15.20	43.35	61.50	54.83	51.88	68.20	-16.32	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



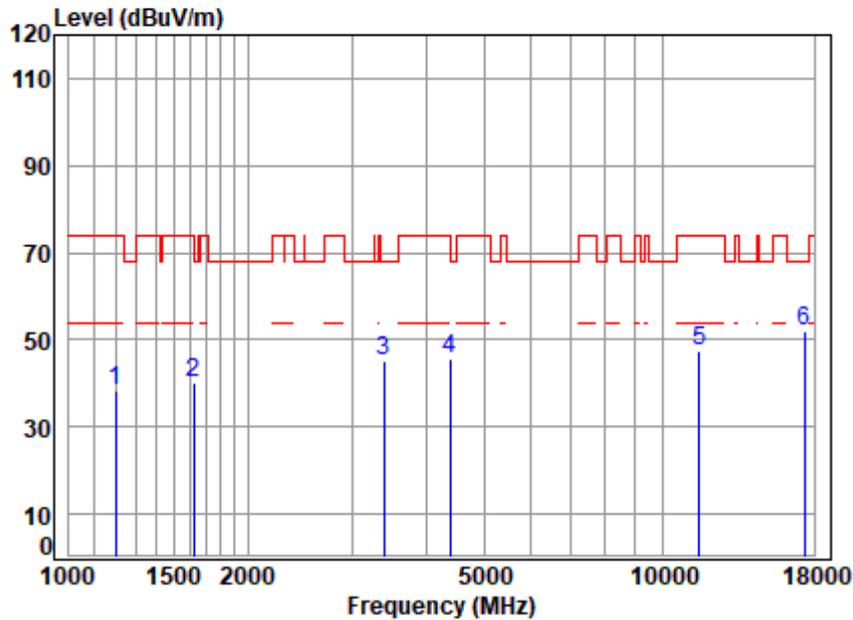
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 TX RSE  
 Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	10.14	24.33	61.55	64.66	37.58	74.00	-36.42	peak
2	1634.543	10.23	26.45	61.70	64.37	39.35	68.20	-28.85	peak
3	3347.371	10.57	32.05	61.32	63.24	44.54	74.00	-29.46	peak
4	4430.628	10.79	34.43	61.57	62.24	45.89	68.20	-22.31	peak
5	11590.000	12.20	37.71	62.64	59.08	46.35	74.00	-27.65	peak
6	p17385.000	15.20	43.35	61.50	54.64	51.69	68.20	-16.51	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



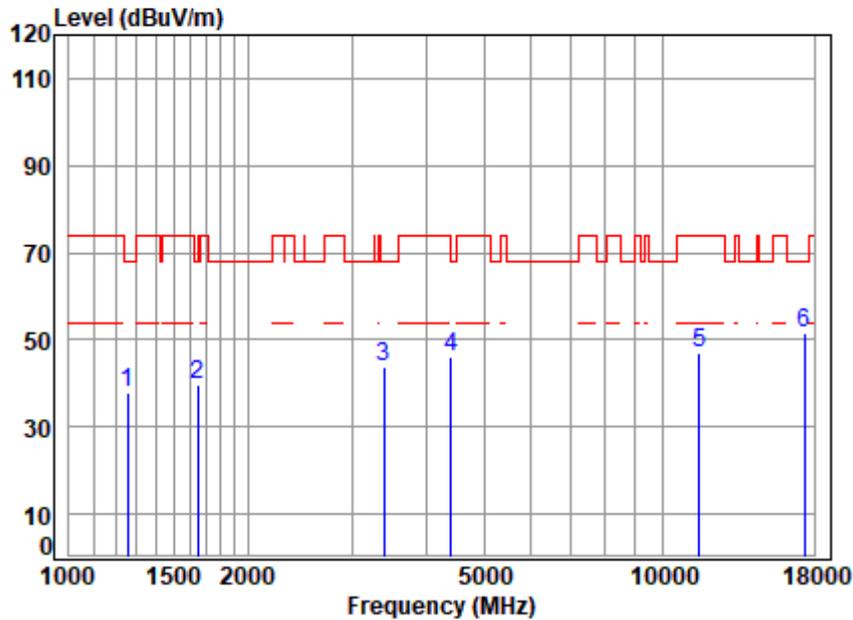
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5775 TX RSE  
 Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	10.14	24.40	61.55	65.47	38.46	74.00	-35.54	peak
2	1620.431	10.23	26.60	61.69	64.90	40.04	74.00	-33.96	peak
3	3396.098	10.58	32.38	61.31	63.34	44.99	68.20	-23.21	peak
4	4379.699	10.78	34.64	61.52	61.87	45.77	74.00	-28.23	peak
5	11550.000	12.15	37.75	62.63	59.99	47.26	74.00	-26.74	peak
6	p17325.000	15.13	43.17	61.56	55.25	51.99	68.20	-16.21	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5775 TX RSE  
 Note : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	10.16	25.06	61.58	64.16	37.80	68.20	-30.40 peak
2	1648.778	10.23	26.31	61.70	64.75	39.59	68.20	-28.61 peak
3	3396.098	10.58	32.38	61.31	62.32	43.97	68.20	-24.23 peak
4	4405.090	10.78	34.74	61.55	62.19	46.16	68.20	-22.04 peak
5	11550.000	12.15	37.75	62.63	59.62	46.89	74.00	-27.11 peak
6	p17325.000	15.13	43.17	61.56	54.88	51.62	68.20	-16.58 peak



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**7.5 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)  
 Test Method: KDB 789033 D02 II G  
 Measurement Distance: 3m

Limit:

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

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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.

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

**7.5.1 E.U.T. Operation**

Operating Environment:



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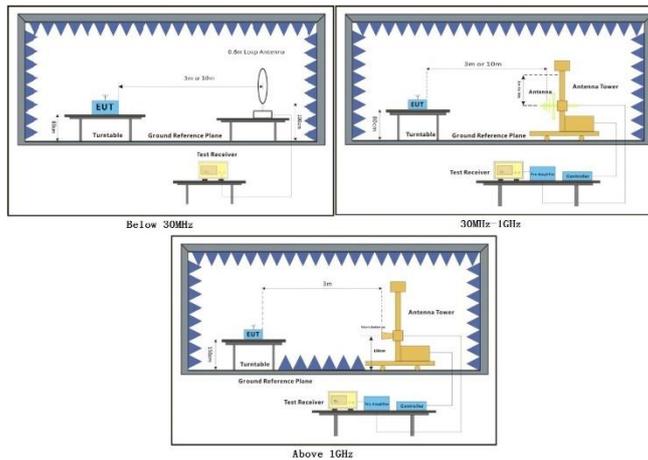
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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594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

Temperature: 24.3 °C Humidity: 67.1 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.5.3 Test Setup Diagram



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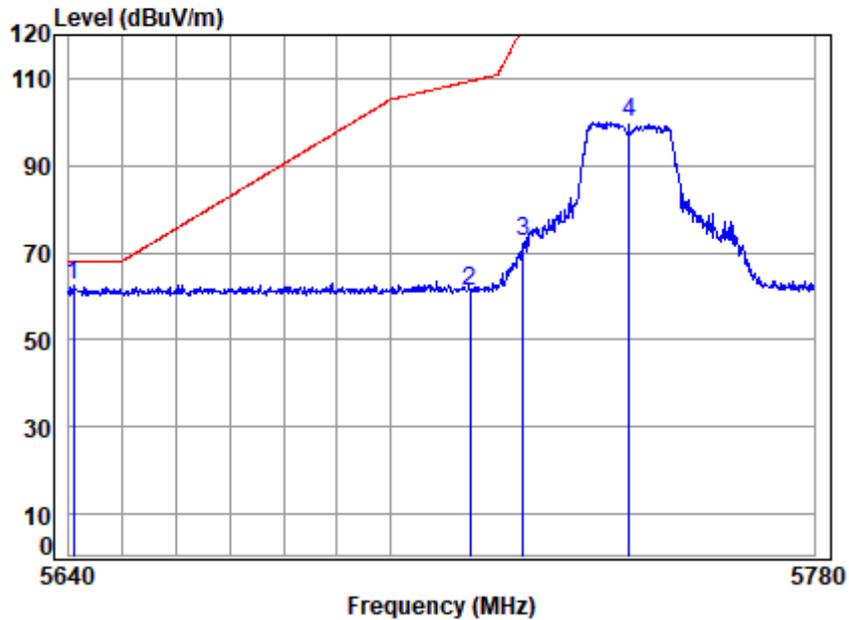
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### 7.5.4 Measurement Procedure and Data

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



Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11A

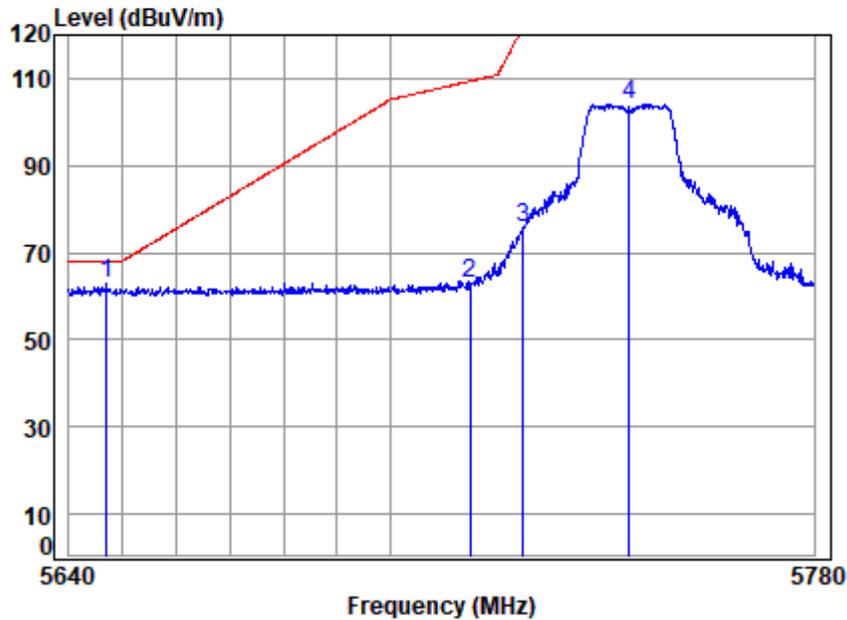
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5640.830	19.40	34.46	35.07	43.51	62.30	68.20	-5.90 peak
2	5715.000	19.45	34.27	35.03	42.64	61.33	109.40	-48.07 peak
3	5725.000	19.46	34.25	35.03	54.03	72.71	122.20	-49.49 peak
4	5745.000	19.47	34.21	35.02	81.33	99.99	-----	----- peak



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



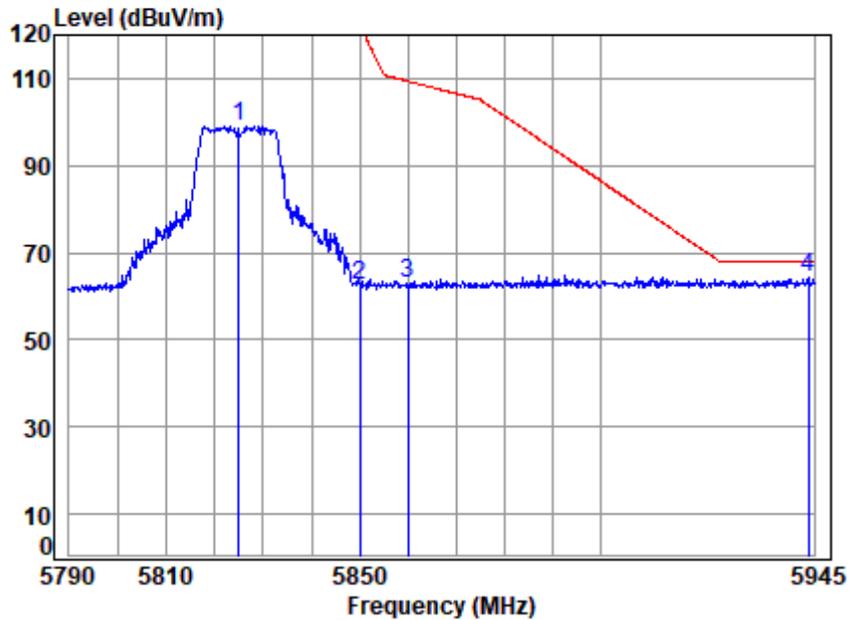
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5647.057	19.41	34.42	35.06	44.11	62.88	68.20	-5.32 peak
2	5715.000	19.45	34.27	35.03	44.28	62.97	109.40	-46.43 peak
3	5725.000	19.46	34.25	35.03	57.05	75.73	122.20	-46.47 peak
4	5745.000	19.47	34.21	35.02	85.59	104.25	-----	----- peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



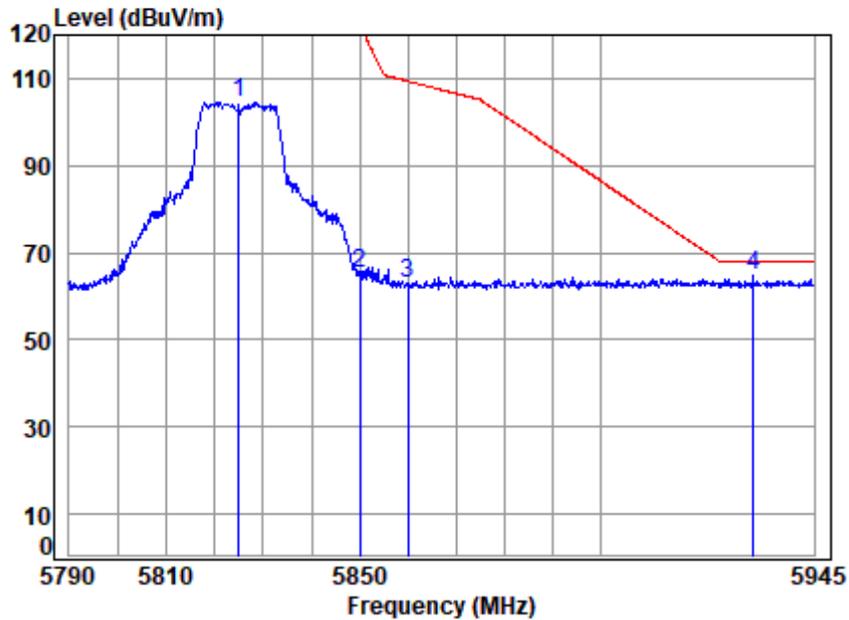
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	34.98	80.10	98.99	-----	-----	peak
2	5850.000	19.54	34.40	34.97	43.42	62.39	122.20	-59.81	peak
3	5860.000	19.54	34.44	34.96	44.14	63.16	109.40	-46.24	peak
4 p	5943.901	19.60	34.69	34.93	45.12	64.48	68.20	-3.72	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



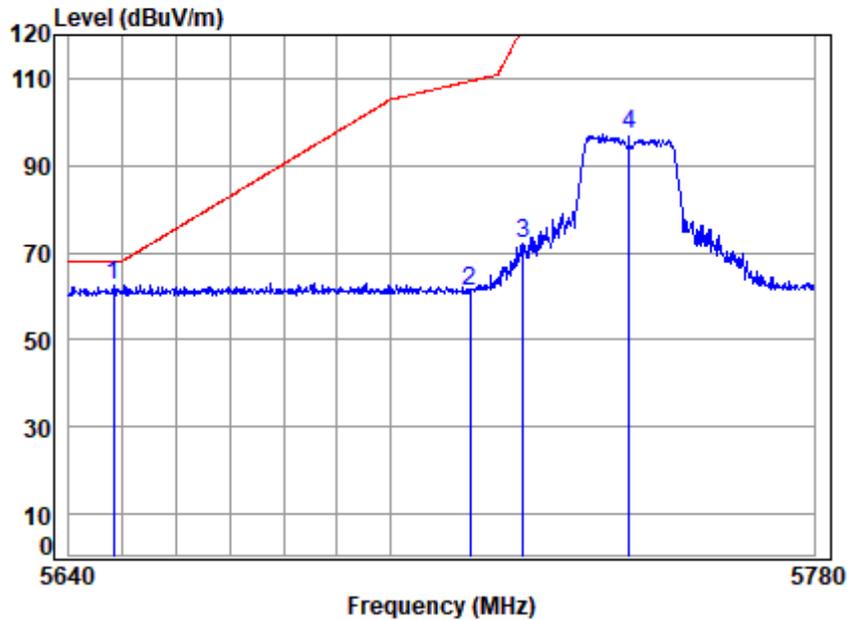
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	34.98	85.56	104.45	-----	-----	peak
2	5850.000	19.54	34.40	34.97	46.12	65.09	122.20	-57.11	peak
3	5860.000	19.54	34.44	34.96	43.98	63.00	109.40	-46.40	peak
4 p	5932.135	19.59	34.66	34.93	45.43	64.75	68.20	-3.45	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



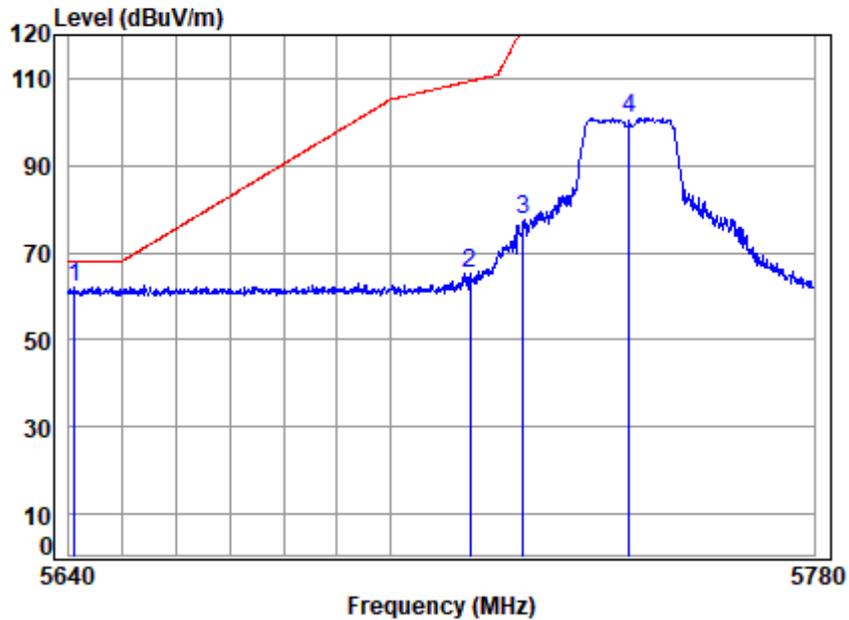
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5648.304	19.41	34.41	35.06	43.54	62.30	68.20	-5.90	peak
2	5715.000	19.45	34.27	35.03	42.36	61.05	109.40	-48.35	peak
3	5725.000	19.46	34.25	35.03	53.30	71.98	122.20	-50.22	peak
4	5745.000	19.47	34.21	35.02	78.46	97.12	-----	-----	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



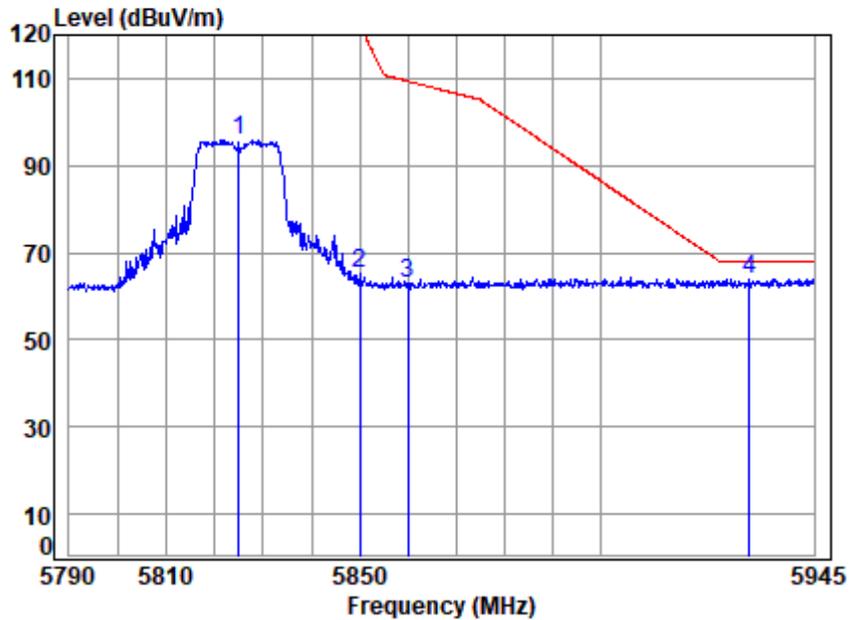
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5641.106	19.40	34.45	35.07	43.49	62.27	68.20	-5.93 peak
2	5715.000	19.45	34.27	35.03	46.43	65.12	109.40	-44.28 peak
3	5725.000	19.46	34.25	35.03	58.84	77.52	122.20	-44.68 peak
4	5745.000	19.47	34.21	35.02	82.17	100.83	-----	----- peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



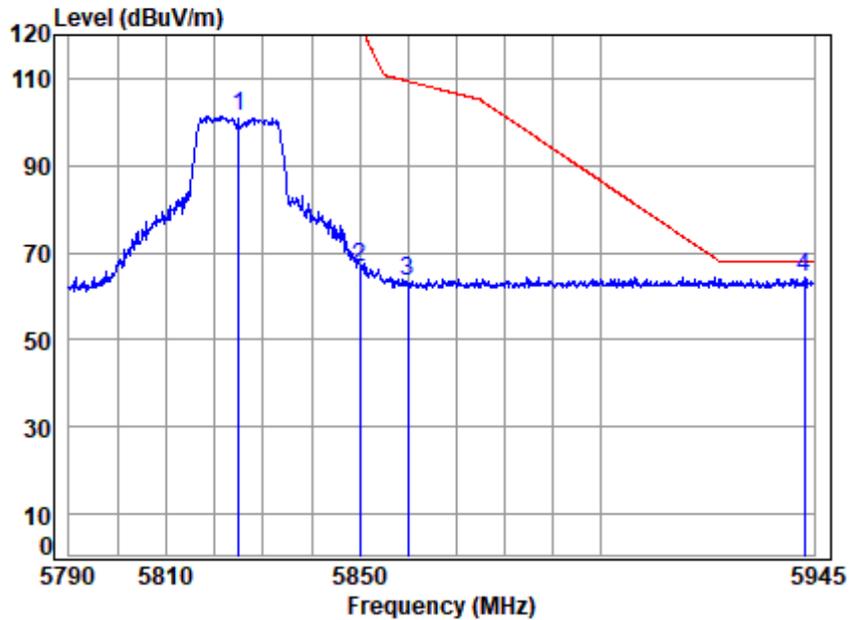
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	19.52	34.35	34.98	76.83	95.72	-----	peak
2	5850.000	19.54	34.40	34.97	46.32	65.29	122.20	-56.91 peak
3	5860.000	19.54	34.44	34.96	44.08	63.10	109.40	-46.30 peak
4 p	5931.352	19.59	34.66	34.93	44.71	64.03	68.20	-4.17 peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



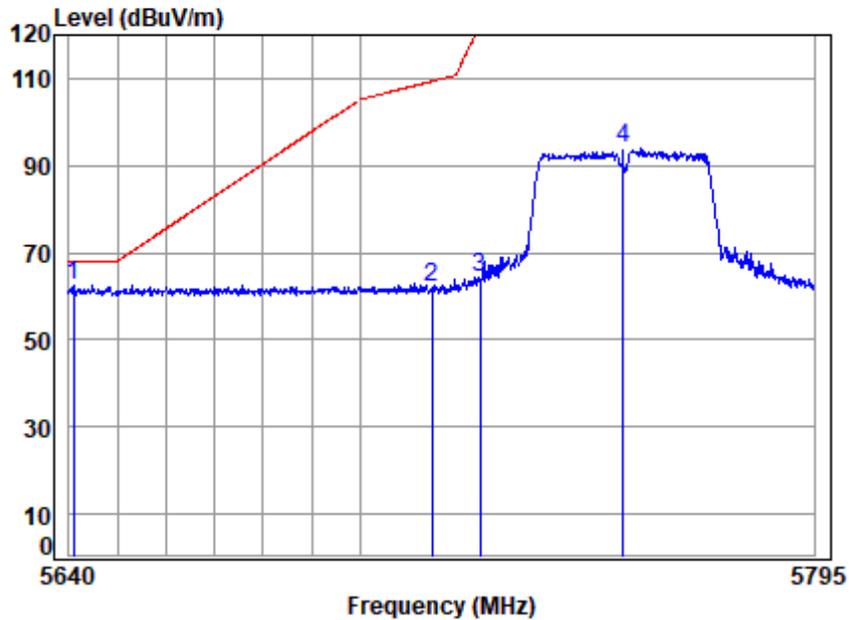
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	34.98	82.34	101.23	-----	-----	peak
2	5850.000	19.54	34.40	34.97	47.55	66.52	122.20	-55.68	peak
3	5860.000	19.54	34.44	34.96	44.28	63.30	109.40	-46.10	peak
4 p	5942.958	19.59	34.69	34.93	44.86	64.21	68.20	-3.99	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11N40

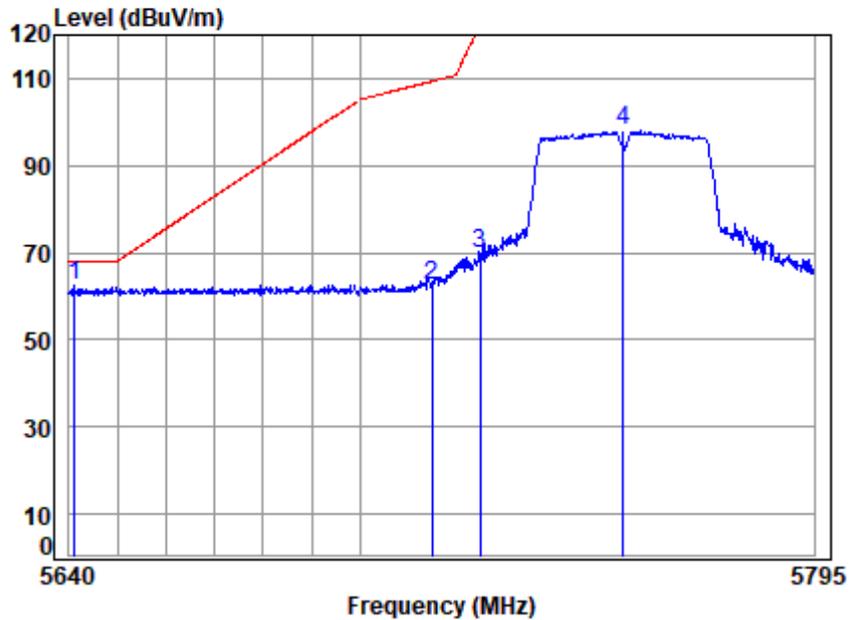
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5640.917	19.40	34.45	35.07	43.81	62.59	68.20	-5.61 peak
2	5715.000	19.45	34.27	35.03	43.47	62.16	109.40	-47.24 peak
3	5725.000	19.46	34.25	35.03	45.65	64.33	122.20	-57.87 peak
4	5755.000	19.48	34.21	35.01	75.11	93.79	-----	----- peak



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



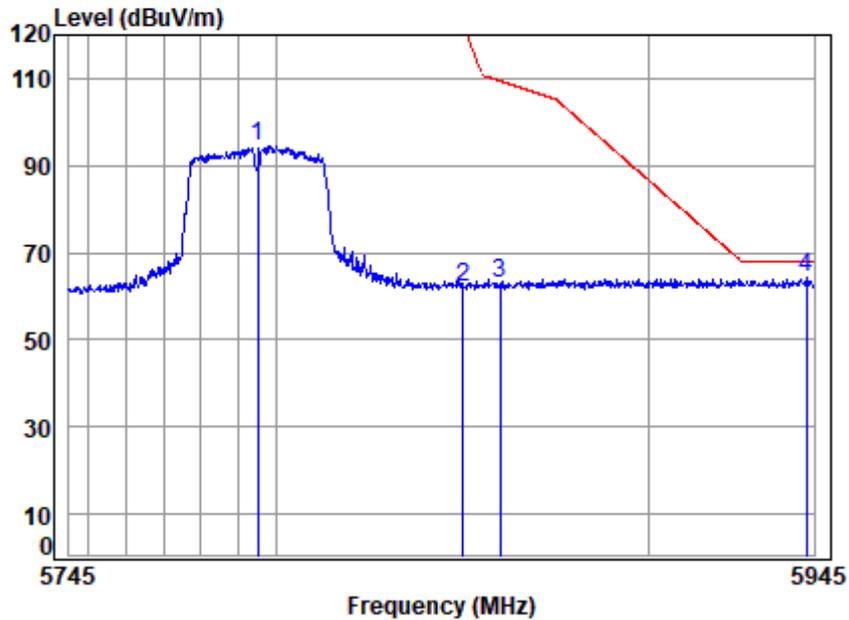
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 p 5641.070	19.40	34.45	35.07	43.70	62.48	68.20	-5.72	peak
2 5715.000	19.45	34.27	35.03	43.81	62.50	109.40	-46.90	peak
3 5725.000	19.46	34.25	35.03	51.00	69.68	122.20	-52.52	peak
4 5755.000	19.48	34.21	35.01	79.23	97.91	-----	-----	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



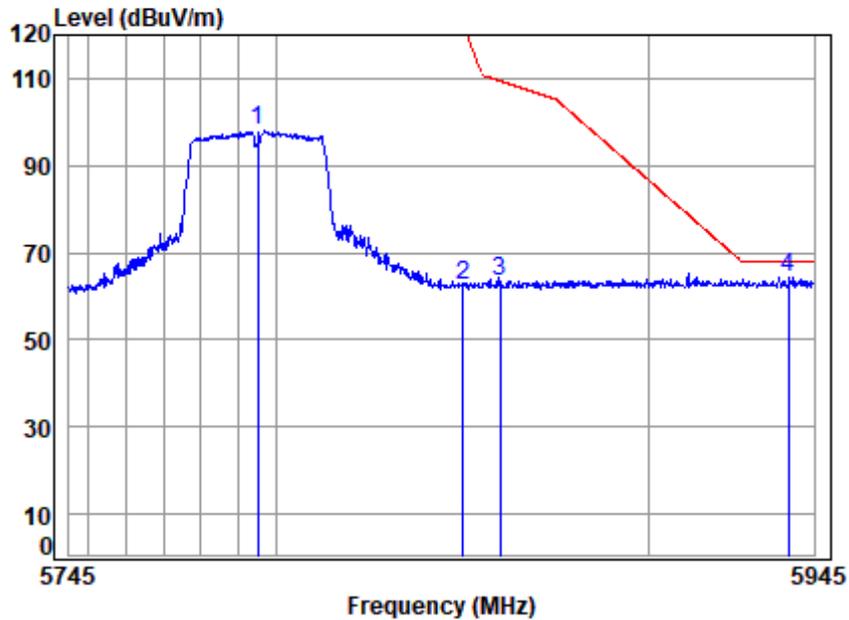
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	34.99	75.51	94.31	-----	-----	peak
2	5850.000	19.54	34.40	34.97	43.17	62.14	122.20	-60.06	peak
3	5860.000	19.54	34.44	34.96	44.01	63.03	109.40	-46.37	peak
4 p	5942.966	19.59	34.69	34.93	44.77	64.12	68.20	-4.08	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11N40

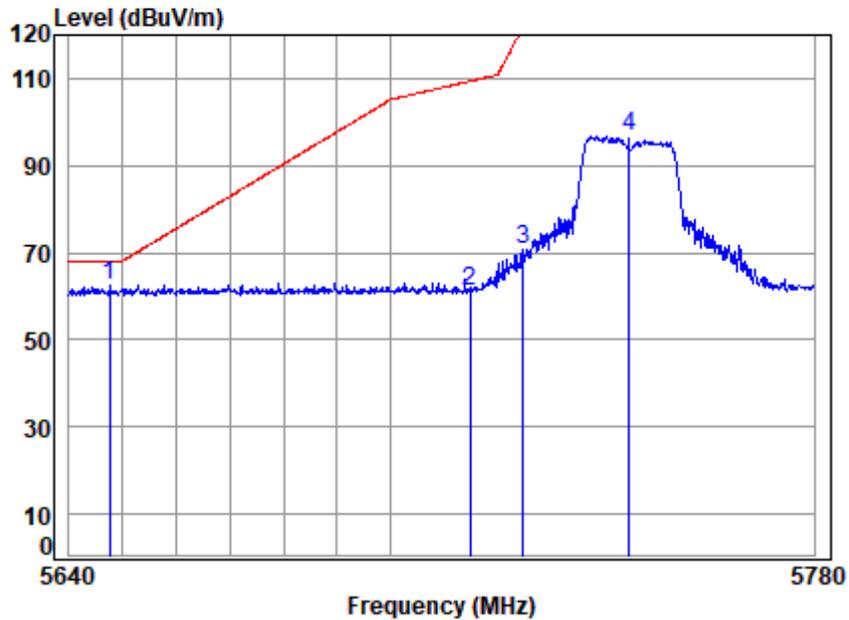
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	34.99	79.18	97.98	-----	-----	peak
2	5850.000	19.54	34.40	34.97	43.45	62.42	122.20	-59.78	peak
3	5860.000	19.54	34.44	34.96	44.36	63.38	109.40	-46.02	peak
4 p	5938.087	19.59	34.68	34.93	44.92	64.26	68.20	-3.94	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



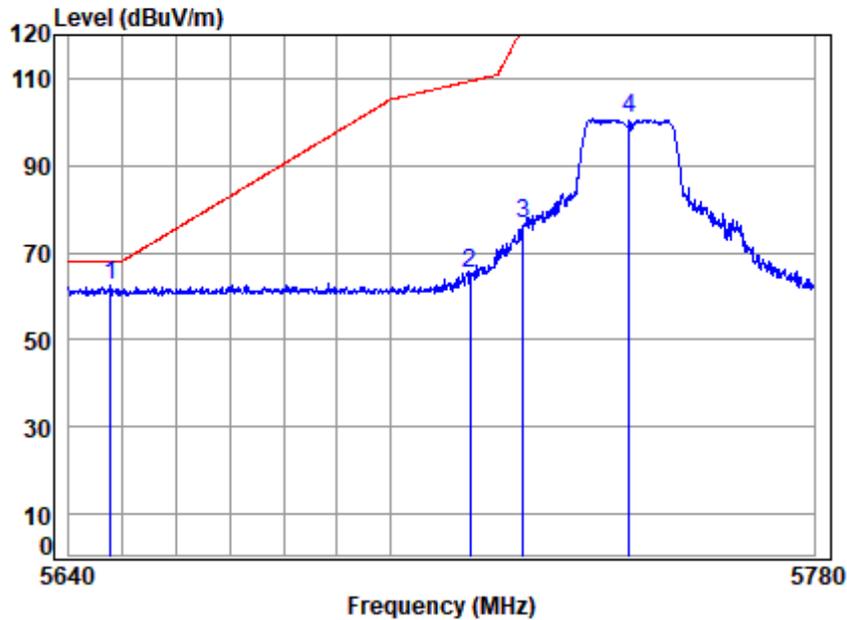
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5647.611	19.41	34.41	35.06	43.68	62.44	68.20	-5.76	peak
2	5715.000	19.45	34.27	35.03	42.67	61.36	109.40	-48.04	peak
3	5725.000	19.46	34.25	35.03	52.05	70.73	122.20	-51.47	peak
4	5745.000	19.47	34.21	35.02	78.25	96.91	-----	-----	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5745 Band edge  
 : 5G WIFI 11AC20

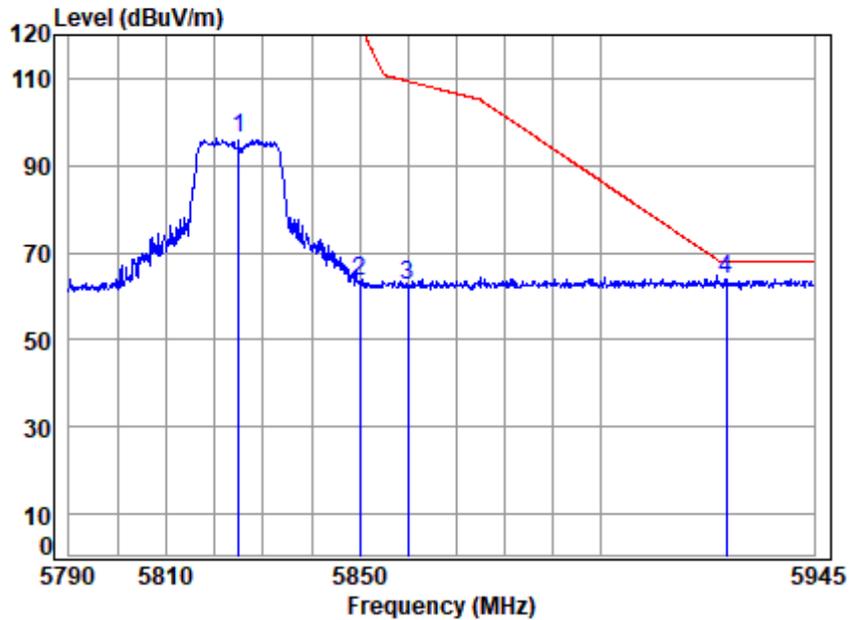
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5647.750	19.41	34.41	35.06	43.95	62.71	68.20	-5.49 peak
2	5715.000	19.45	34.27	35.03	46.60	65.29	109.40	-44.11 peak
3	5725.000	19.46	34.25	35.03	57.88	76.56	122.20	-45.64 peak
4	5745.000	19.47	34.21	35.02	82.14	100.80	-----	----- peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



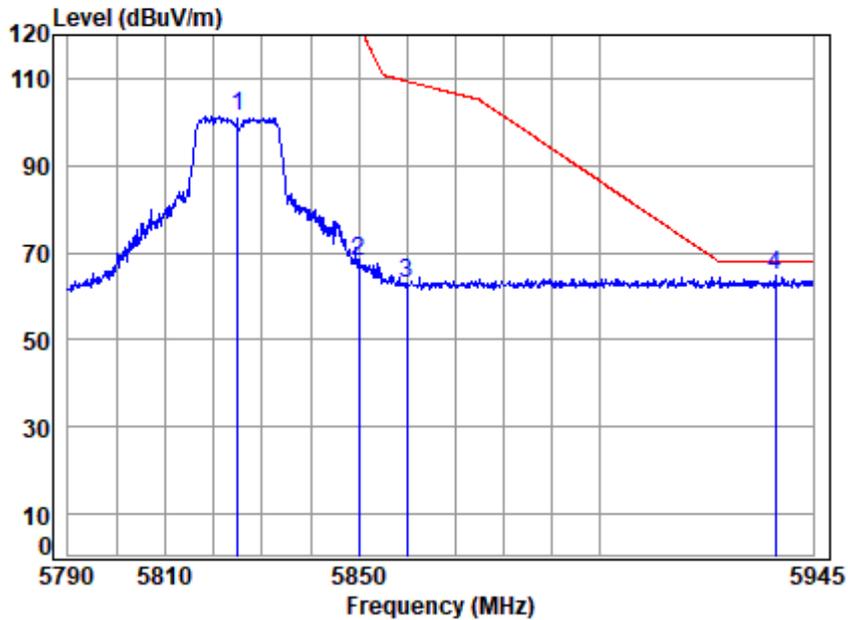
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	34.98	77.21	96.10	-----	-----	peak
2	5850.000	19.54	34.40	34.97	44.60	63.57	122.20	-58.63	peak
3	5860.000	19.54	34.44	34.96	43.56	62.58	109.40	-46.82	peak
4 p	5926.496	19.58	34.65	34.93	44.68	63.98	68.20	-4.22	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel: High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5825 Band edge  
 : 5G WIFI 11AC20

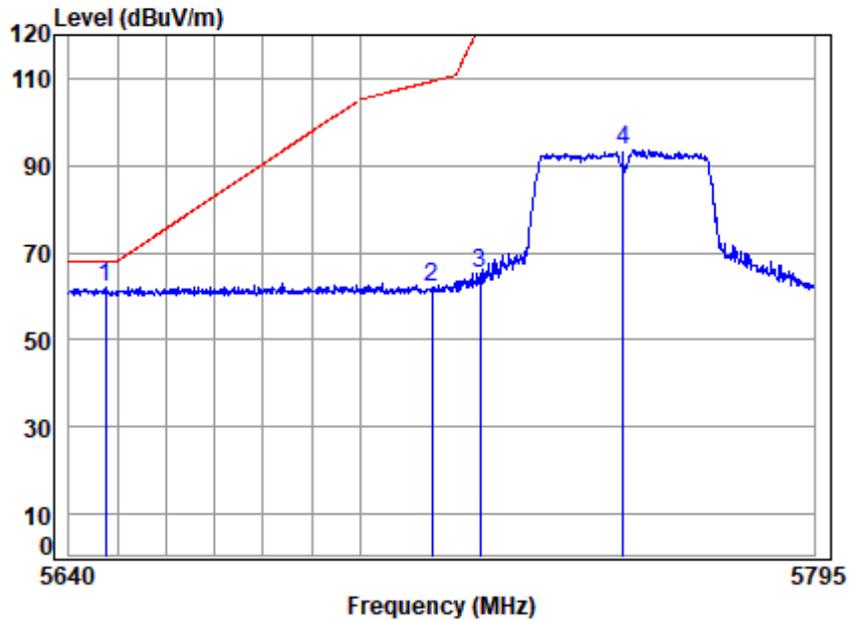
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	19.52	34.35	34.98	82.28	101.17	-----	-----	peak
2	5850.000	19.54	34.40	34.97	48.91	67.88	122.20	-54.32	peak
3	5860.000	19.54	34.44	34.96	43.88	62.90	109.40	-46.50	peak
4 p	5936.996	19.59	34.67	34.93	45.28	64.61	68.20	-3.59	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low

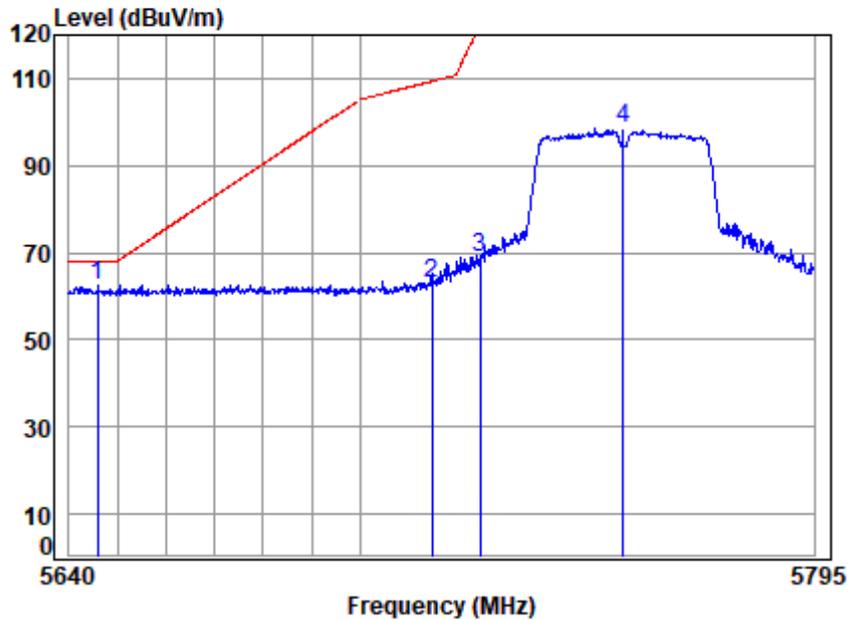


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5647.498	19.41	34.42	35.06	43.17	61.94	68.20	-6.26	peak
2	5715.000	19.45	34.27	35.03	43.17	61.86	109.40	-47.54	peak
3	5725.000	19.46	34.25	35.03	46.60	65.28	122.20	-56.92	peak
4	5755.000	19.48	34.21	35.01	74.77	93.45	-----	-----	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: Low



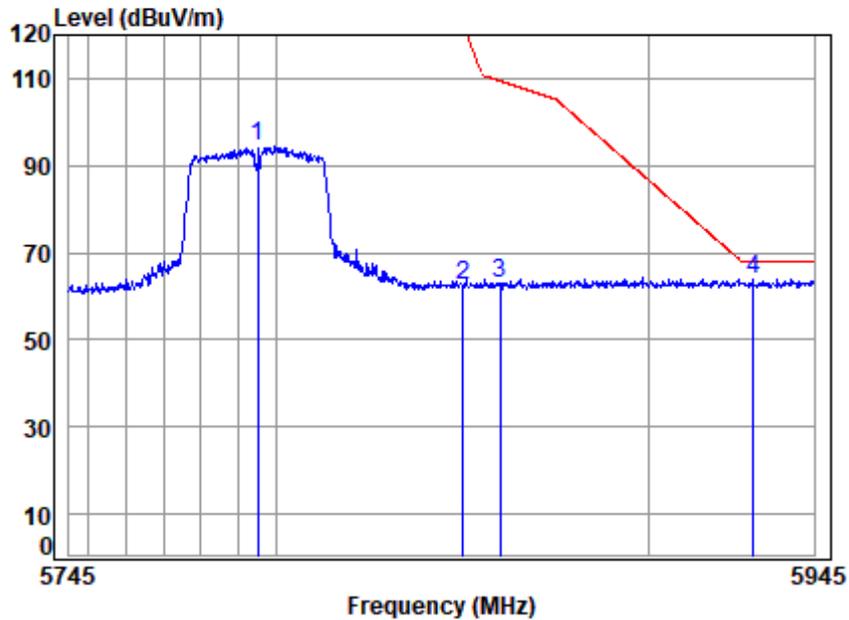
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5755 Band edge  
 : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5645.967	19.41	34.42	35.06	43.74	62.51	68.20	-5.69	peak
2	5715.000	19.45	34.27	35.03	44.45	63.14	109.40	-46.26	peak
3	5725.000	19.46	34.25	35.03	50.16	68.84	122.20	-53.36	peak
4	5755.000	19.48	34.21	35.01	79.98	98.66	-----	-----	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



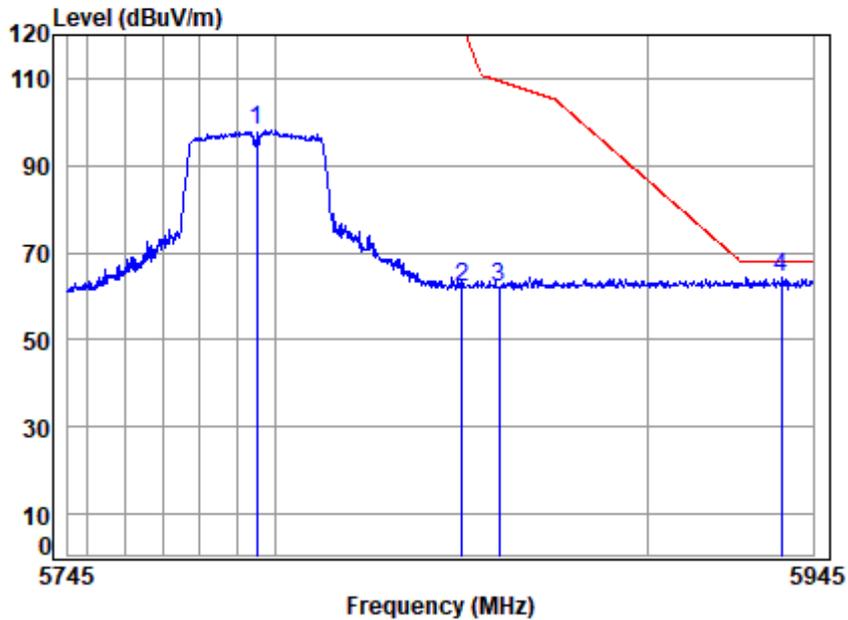
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	34.99	75.61	94.41	-----	-----	peak
2	5850.000	19.54	34.40	34.97	43.70	62.67	122.20	-59.53	peak
3	5860.000	19.54	34.44	34.96	43.96	62.98	109.40	-46.42	peak
4 p	5928.341	19.59	34.66	34.93	44.51	63.83	68.20	-4.37	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel: High



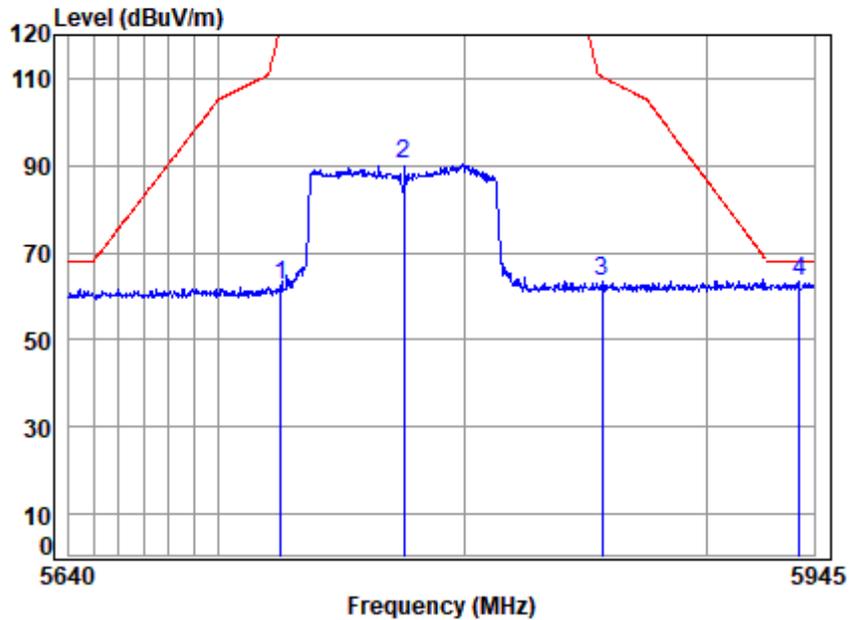
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5795 Band edge  
 : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.50	34.29	34.99	79.19	97.99	-----	-----	peak
2	5850.000	19.54	34.40	34.97	43.29	62.26	122.20	-59.94	peak
3	5860.000	19.54	34.44	34.96	43.03	62.05	109.40	-47.35	peak
4 p	5936.461	19.59	34.67	34.93	44.99	64.32	68.20	-3.88	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



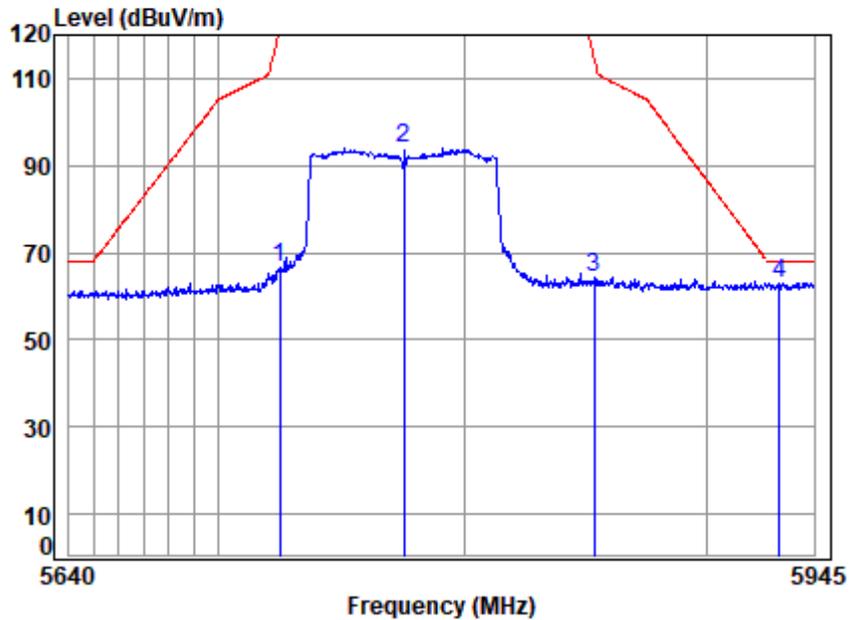
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02498AT\02499AT  
 Mode : 5775 Band edge  
 : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.993	19.46	34.25	35.03	43.96	62.64	122.18	-59.54 peak
2	5775.000	19.49	34.25	35.00	71.45	90.19	-----	----- peak
3	5856.432	19.54	34.43	34.97	44.21	63.21	110.40	-47.19 peak
4 p	5938.741	19.59	34.68	34.93	43.87	63.21	68.20	-4.99 peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02498AT\02499AT  
 Mode : 5775 Band edge  
 : 5G WIFI 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.691	19.46	34.25	35.03	47.93	66.61	121.50	-54.89 peak
2	5775.000	19.49	34.25	35.00	75.32	94.06	-----	----- peak
3	5853.349	19.54	34.41	34.97	45.16	64.14	114.56	-50.42 peak
4 p	5930.615	19.59	34.66	34.93	43.84	63.16	68.20	-5.04 peak



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1  
 Test Method: KDB 789033 II B 1

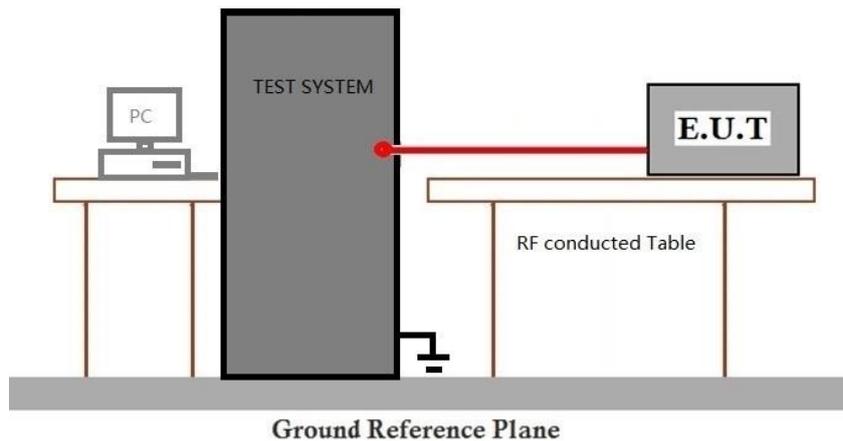
#### 7.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 99% Bandwidth

Test Requirement N/A  
 Test Method: KDB 789033 II D

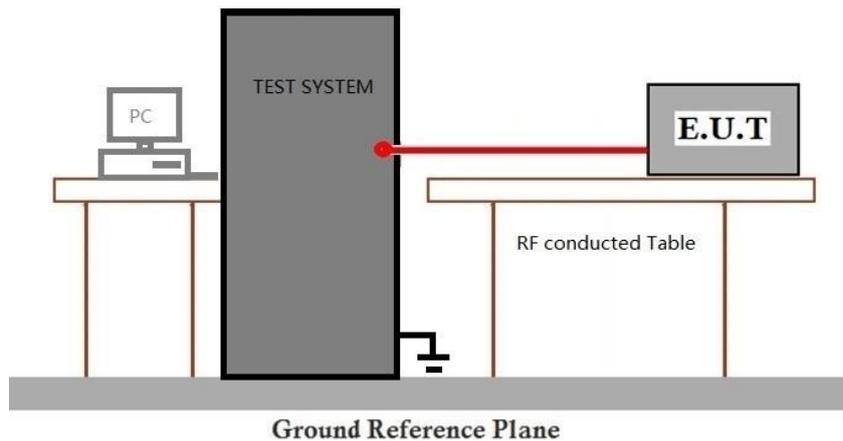
#### 7.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

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

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

**7.8.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

**7.8.2 Test Mode Description**

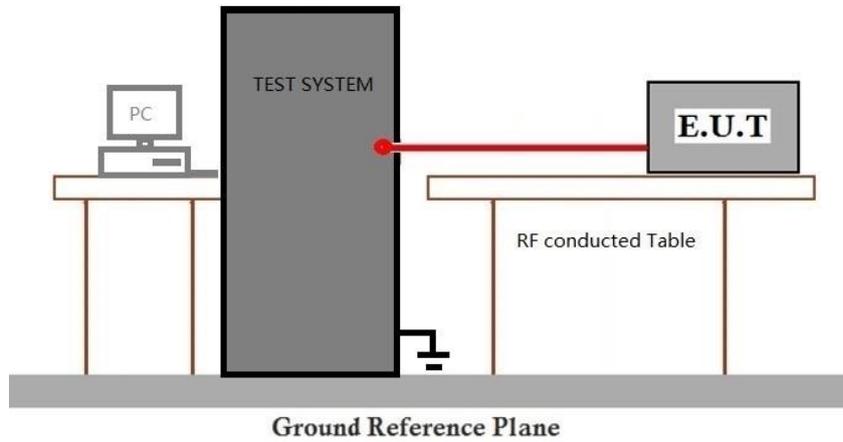
Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**7.9 Peak Power spectrum density**

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)  
 Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

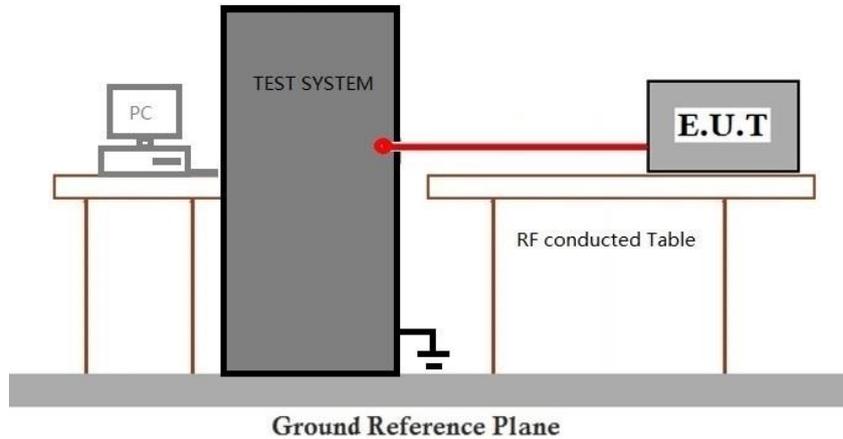
**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.10 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.10.1 E.U.T. Operation

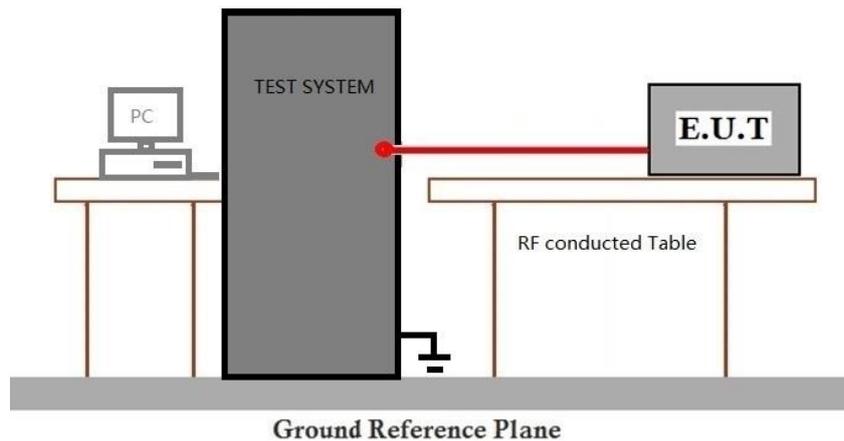
Operating Environment:

Temperature: 23.6 °C Humidity: 43.1 % RH Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 8 Test Setup Photo

Refer to Setup Photo for SZCR2406002498AT

### 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2406002498AT



## 10 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	5745	1.397	1.486	94.01	0.27	2.94
		5785	1.396	1.441	96.88	0.14	0.00
		5825	1.403	1.504	93.28	0.30	4.11
802.11n (HT20)	SISO	5745	1.308	1.479	88.44	0.53	8.21
		5785	1.308	1.416	92.37	0.34	4.34
		5825	1.308	1.388	94.24	0.26	2.50
802.11n (HT40)	SISO	5755	0.649	0.693	93.65	0.28	0.03
		5795	0.648	0.693	93.51	0.29	0.04
802.11ac (VHT20)	SISO	5745	1.317	1.389	94.82	0.23	1.92
		5785	1.323	1.370	96.57	0.15	0.66
		5825	1.316	1.397	94.20	0.26	1.86
802.11ac (VHT40)	SISO	5755	0.657	0.827	79.44	1.00	14.28
		5795	0.656	0.979	67.01	1.74	26.69
802.11ac (VHT80)	SISO	5775	0.325	0.368	88.32	0.54	0.04

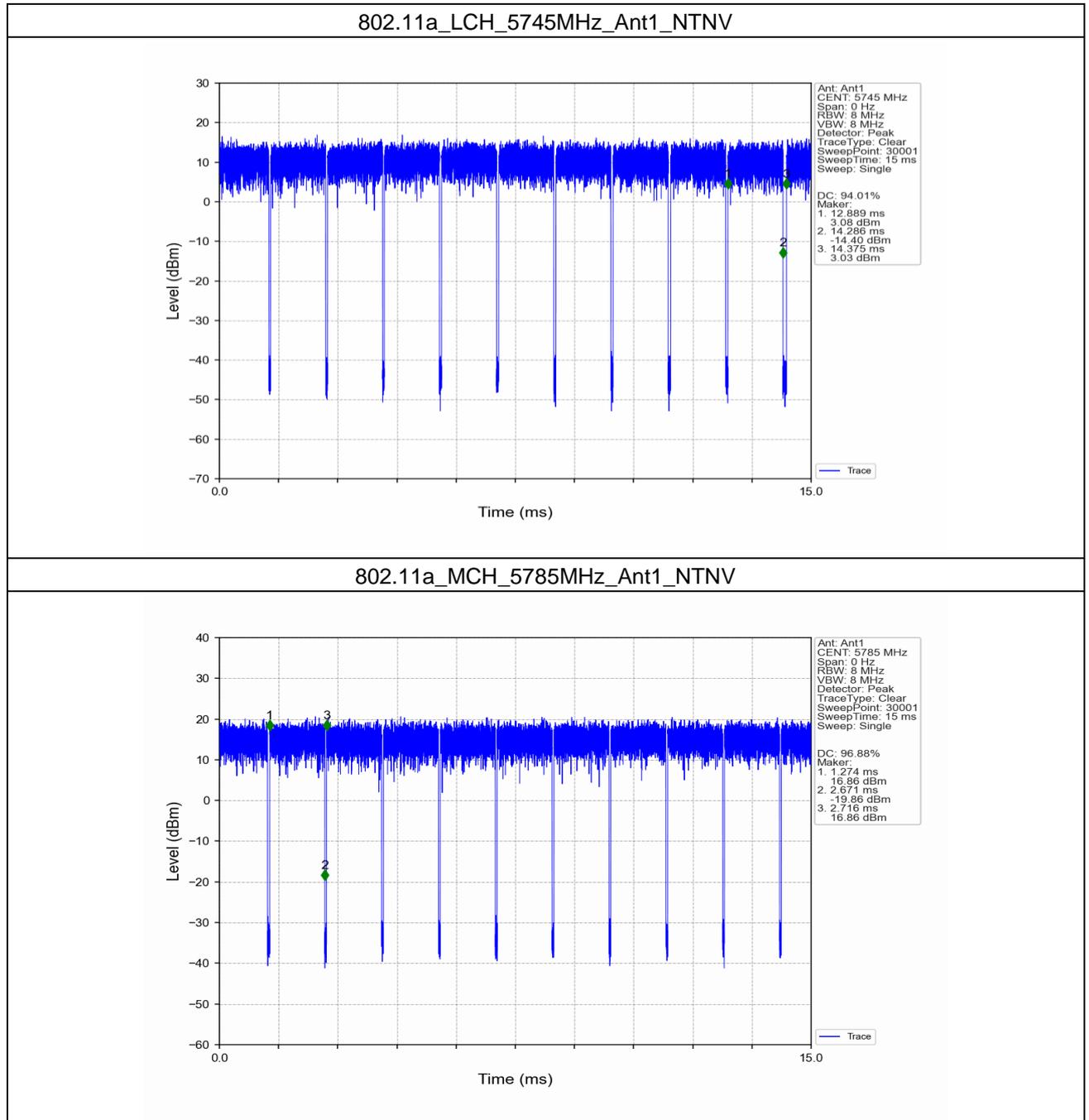


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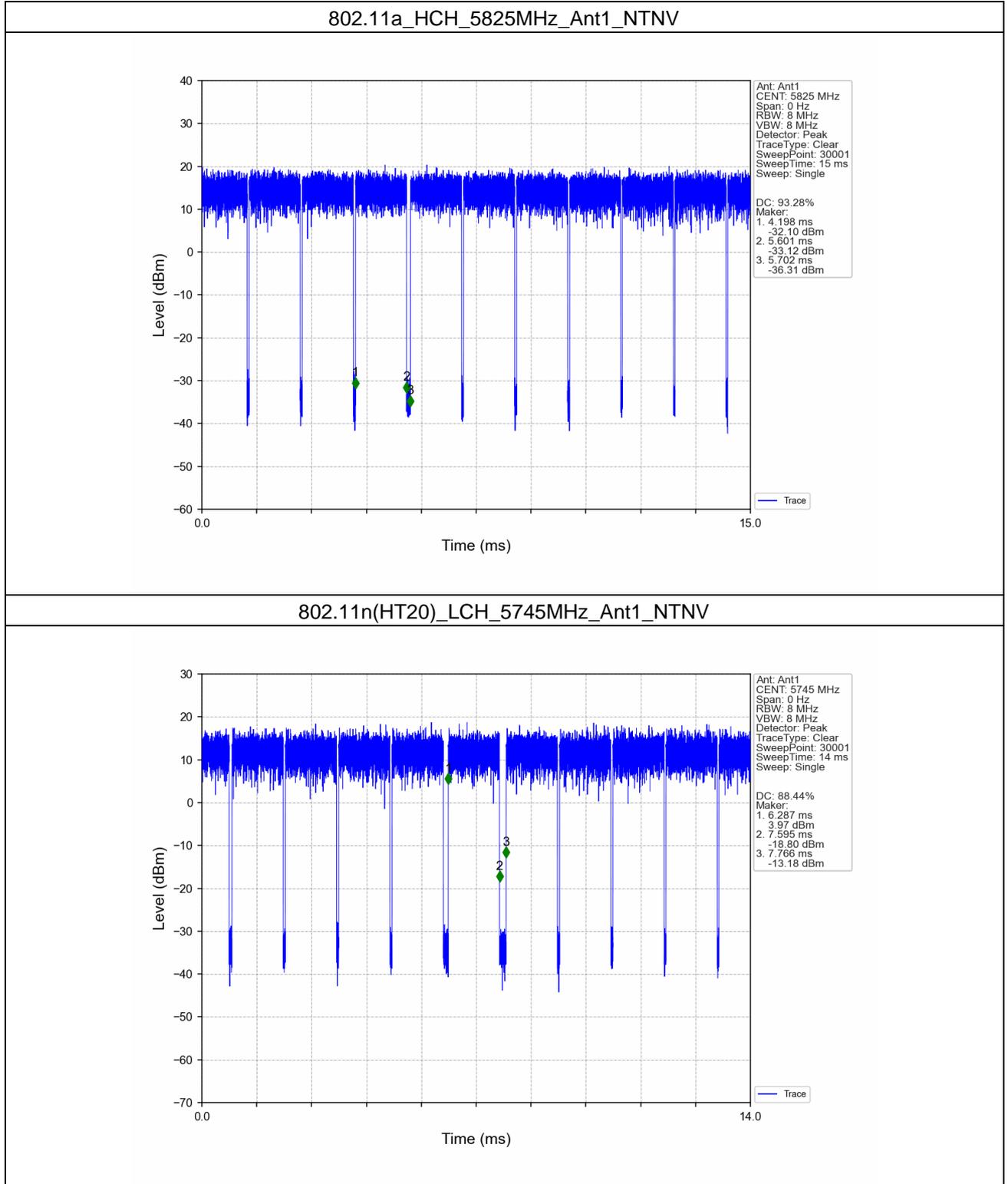
### 1.2 Test Graph

#### 1.2.1 Ant1

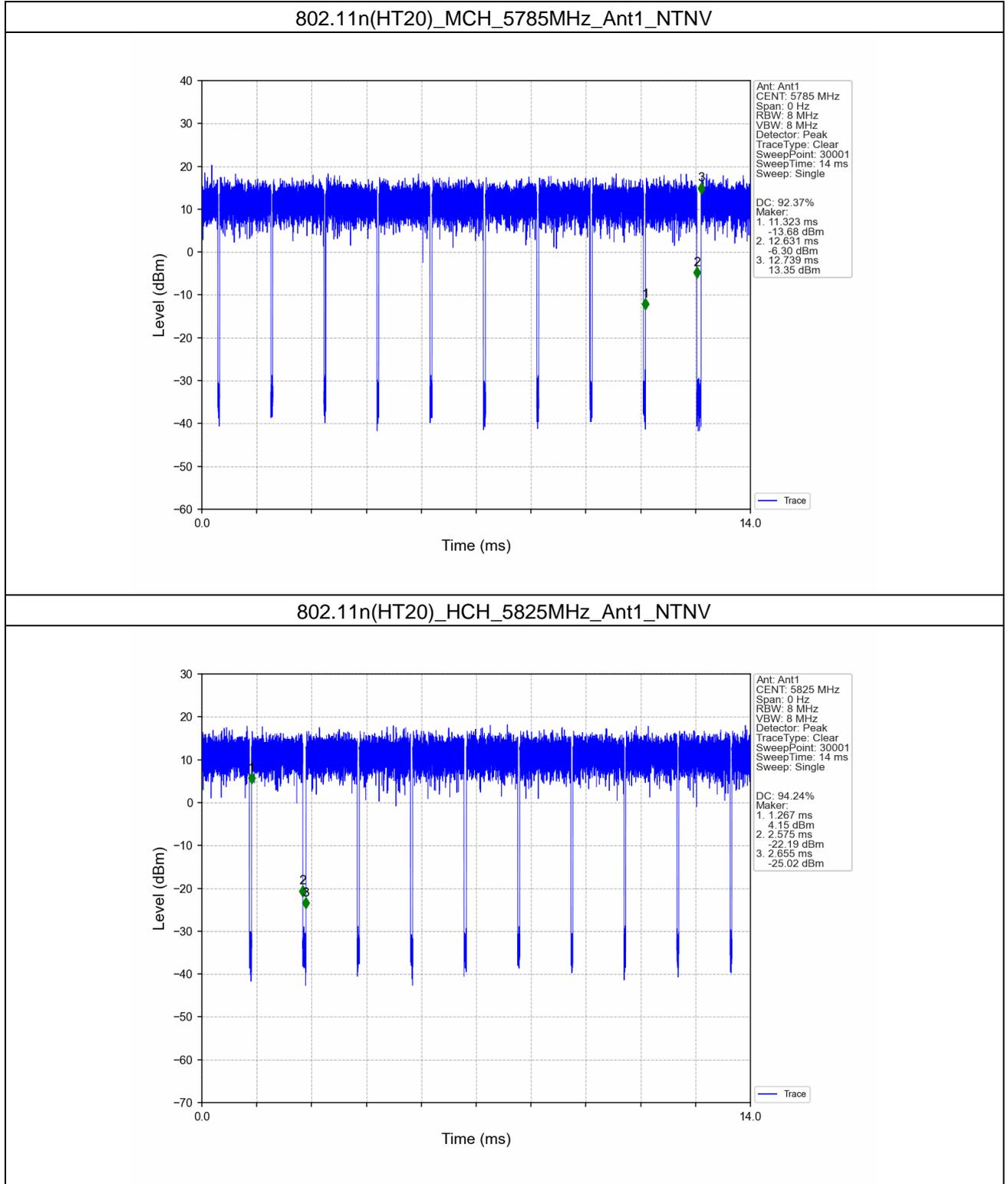


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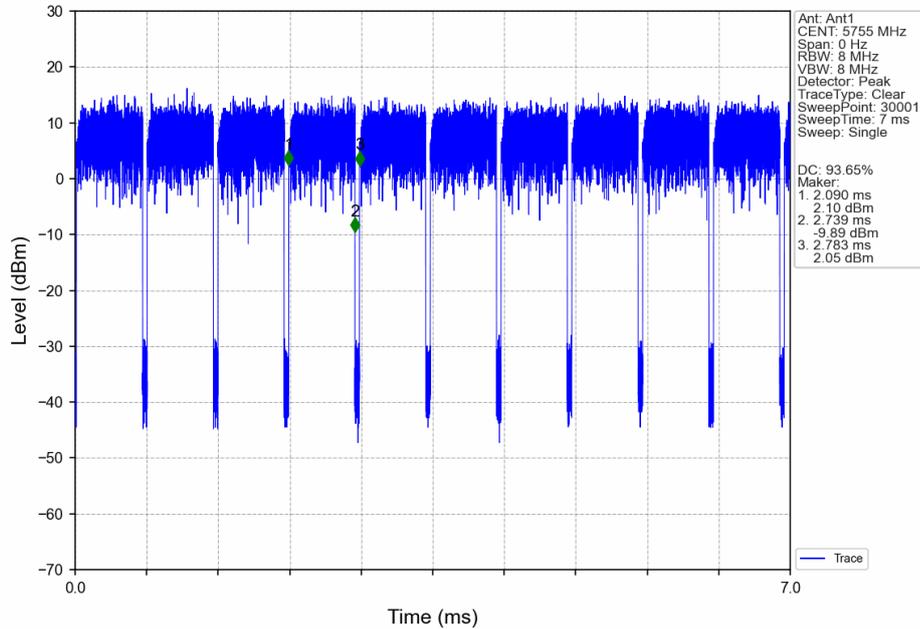


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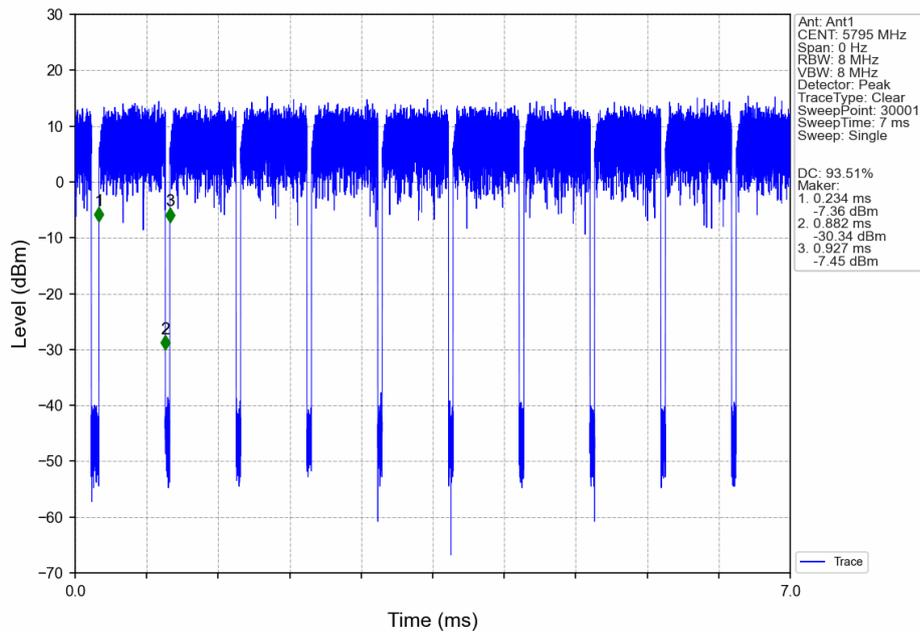


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### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



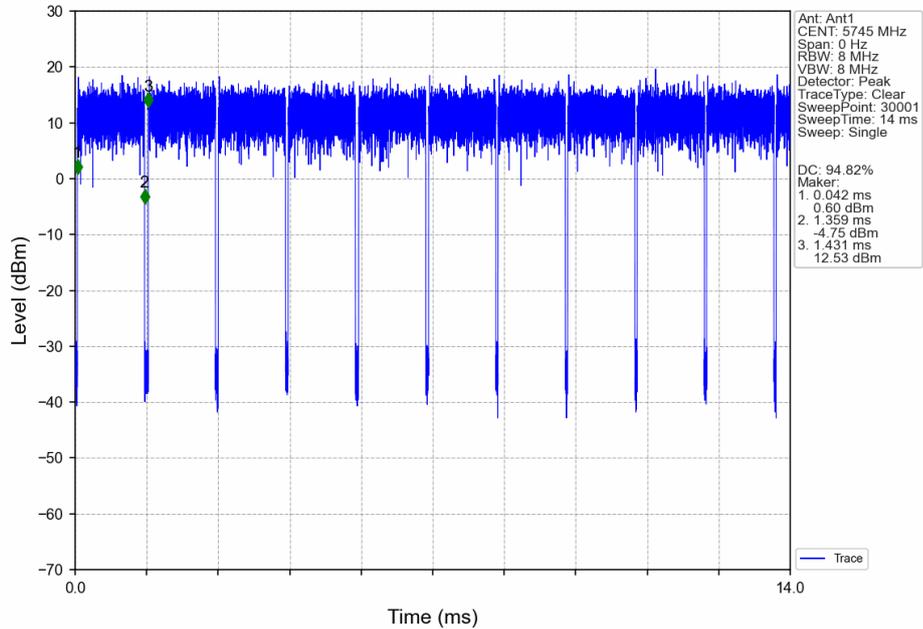
### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



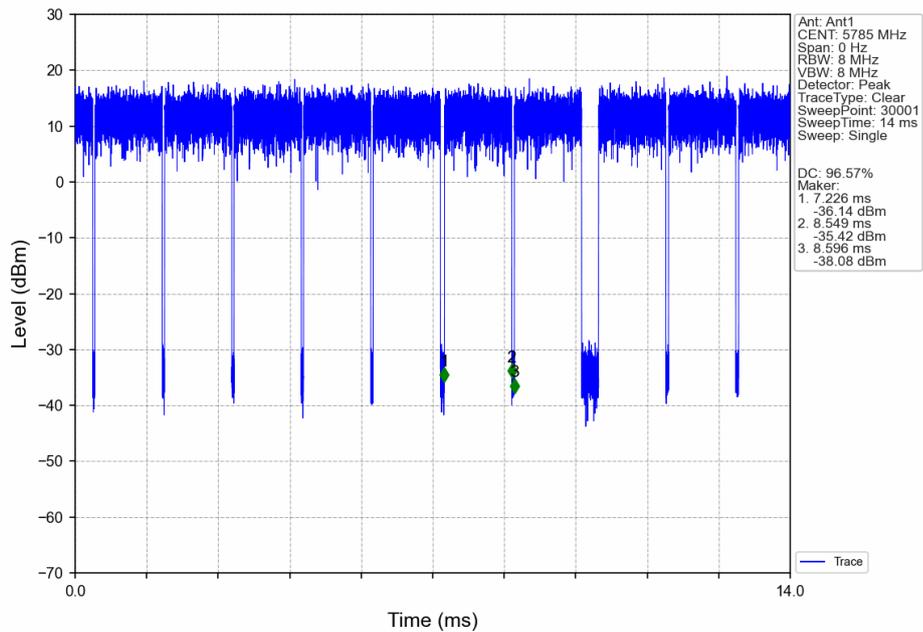
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



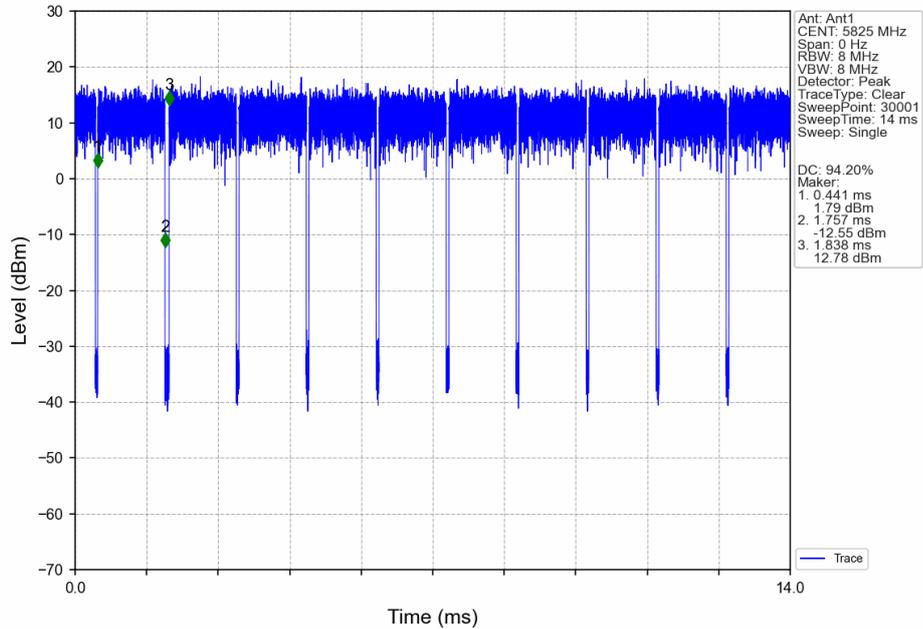
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



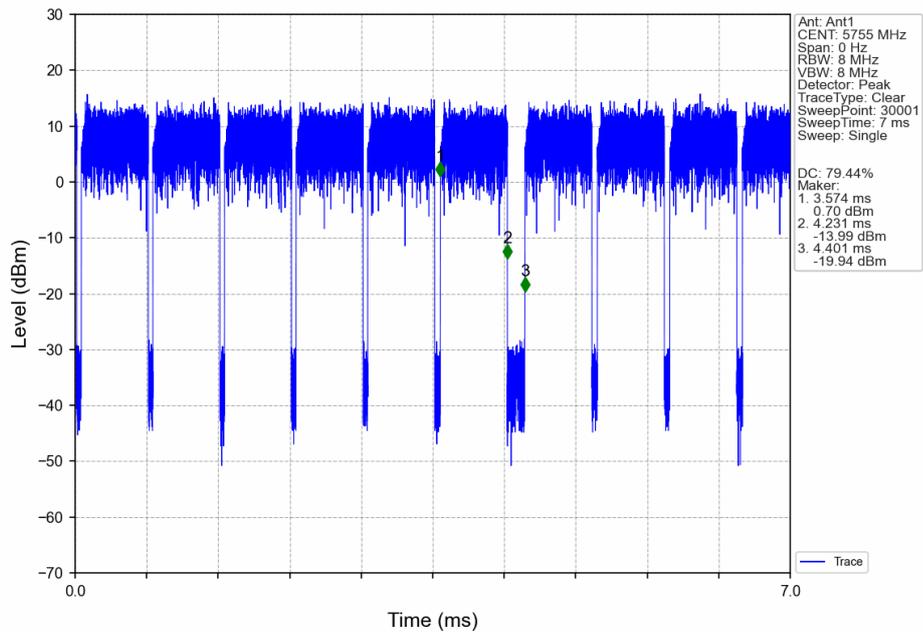
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



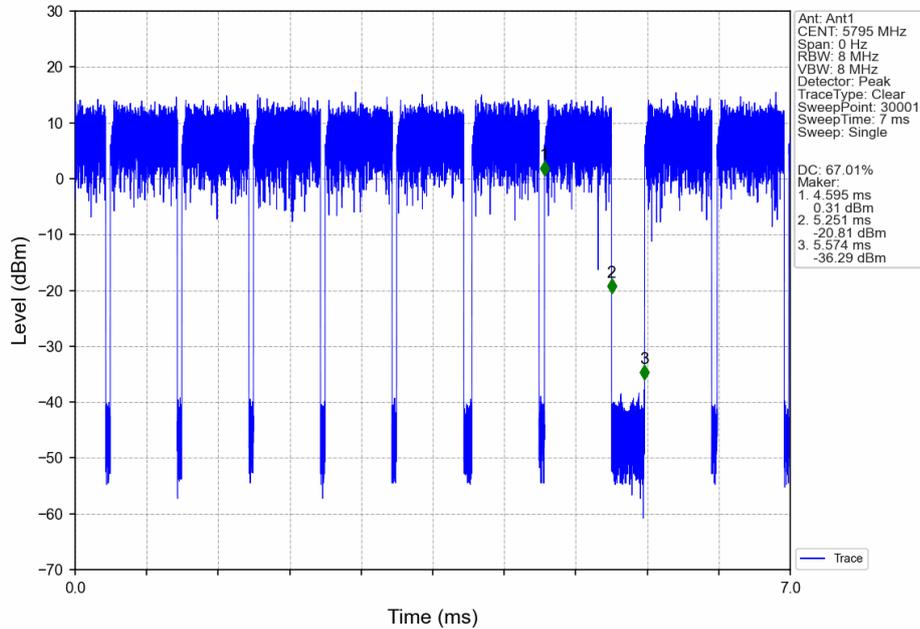
### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



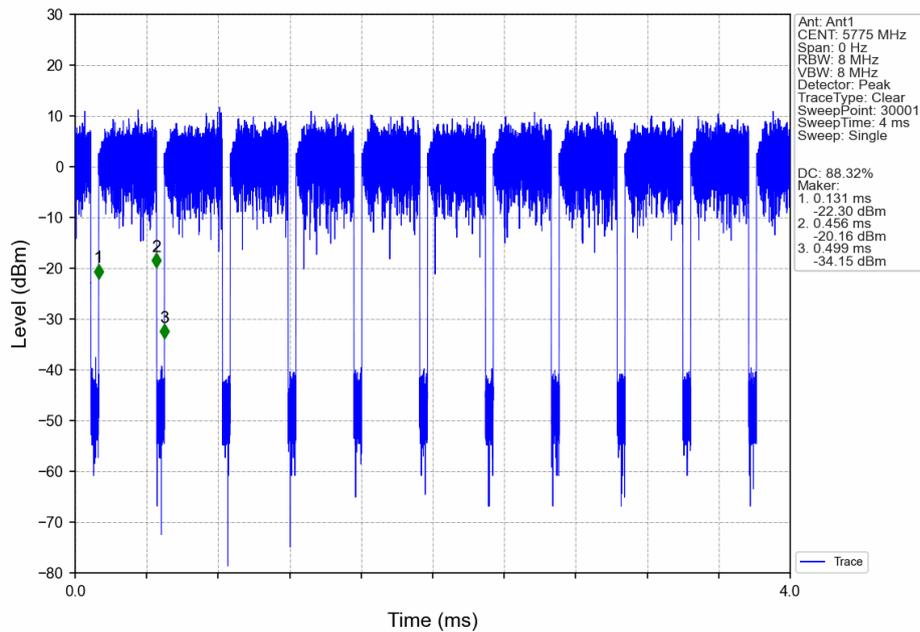
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 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	5745	1	17.650	/	Pass
		5785	1	18.435	/	Pass
		5825	1	18.362	/	Pass
802.11n (HT20)	SISO	5745	1	18.775	/	Pass
		5785	1	18.709	/	Pass
		5825	1	18.725	/	Pass
802.11n (HT40)	SISO	5755	1	36.558	/	Pass
		5795	1	36.608	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.852	/	Pass
		5785	1	18.934	/	Pass
		5825	1	18.885	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.523	/	Pass
		5795	1	36.526	/	Pass
802.11ac (VHT80)	SISO	5775	1	76.293	/	Pass



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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.433	>=0.5	Pass
		5785	1	16.395	>=0.5	Pass
		5825	1	16.385	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.577	>=0.5	Pass
		5785	1	17.603	>=0.5	Pass
		5825	1	17.599	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.076	>=0.5	Pass
		5795	1	35.622	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.579	>=0.5	Pass
		5785	1	17.596	>=0.5	Pass
		5825	1	17.585	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.631	>=0.5	Pass
		5795	1	35.848	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.514	>=0.5	Pass

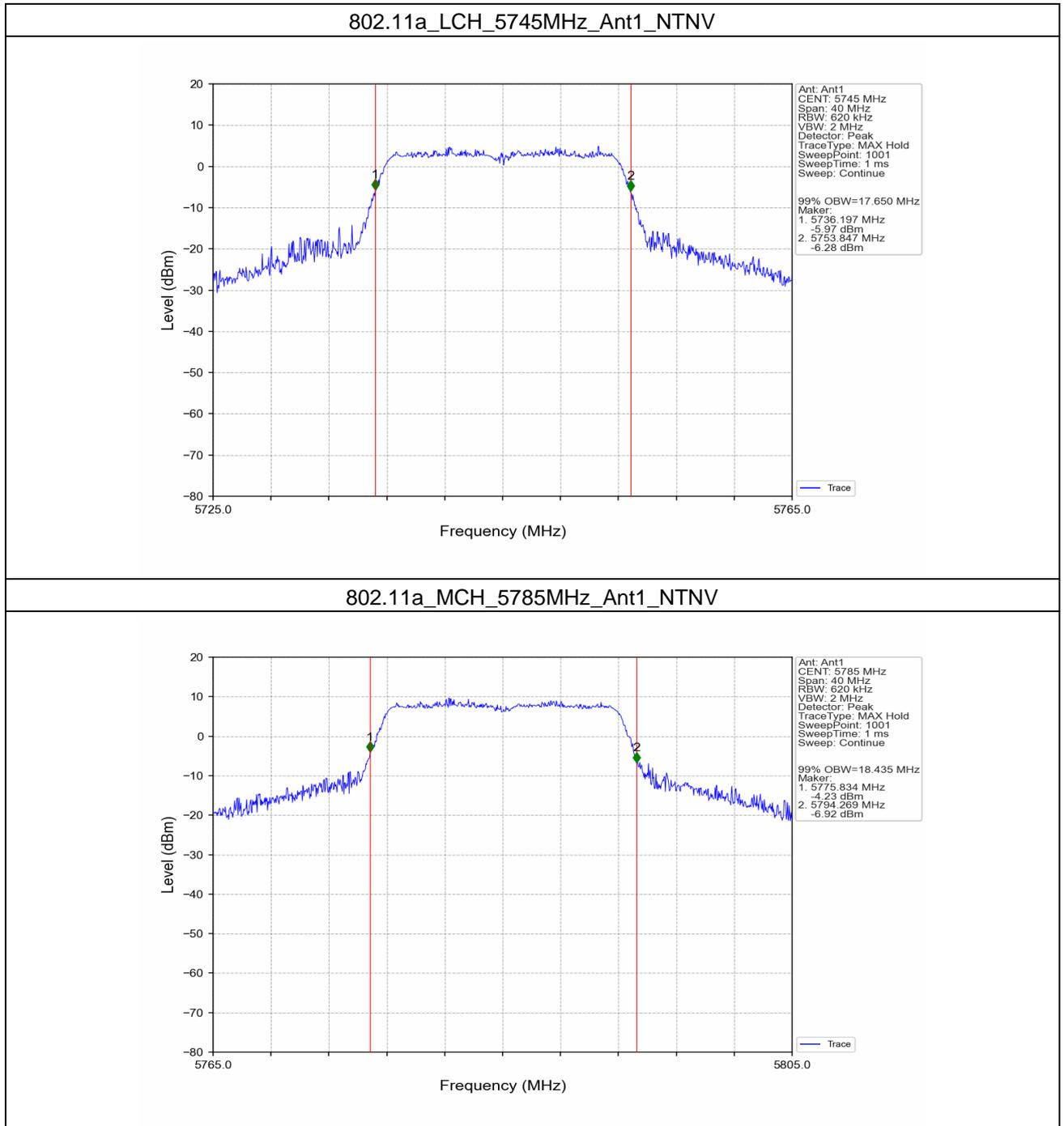


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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

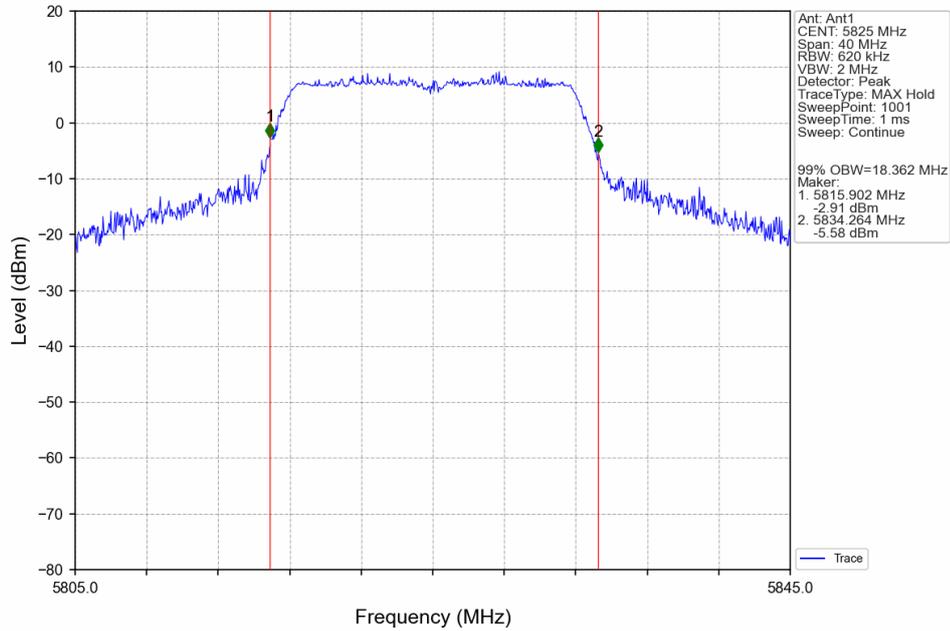
### 2.2 Test Graph

#### 2.2.1 OBW

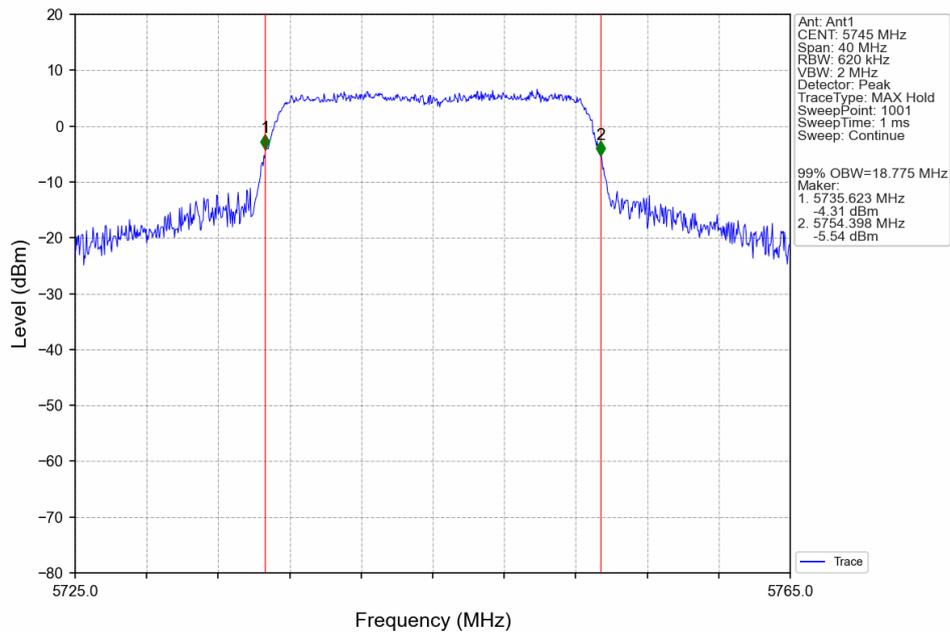


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802.11a\_HCH\_5825MHz\_Ant1\_NTNV

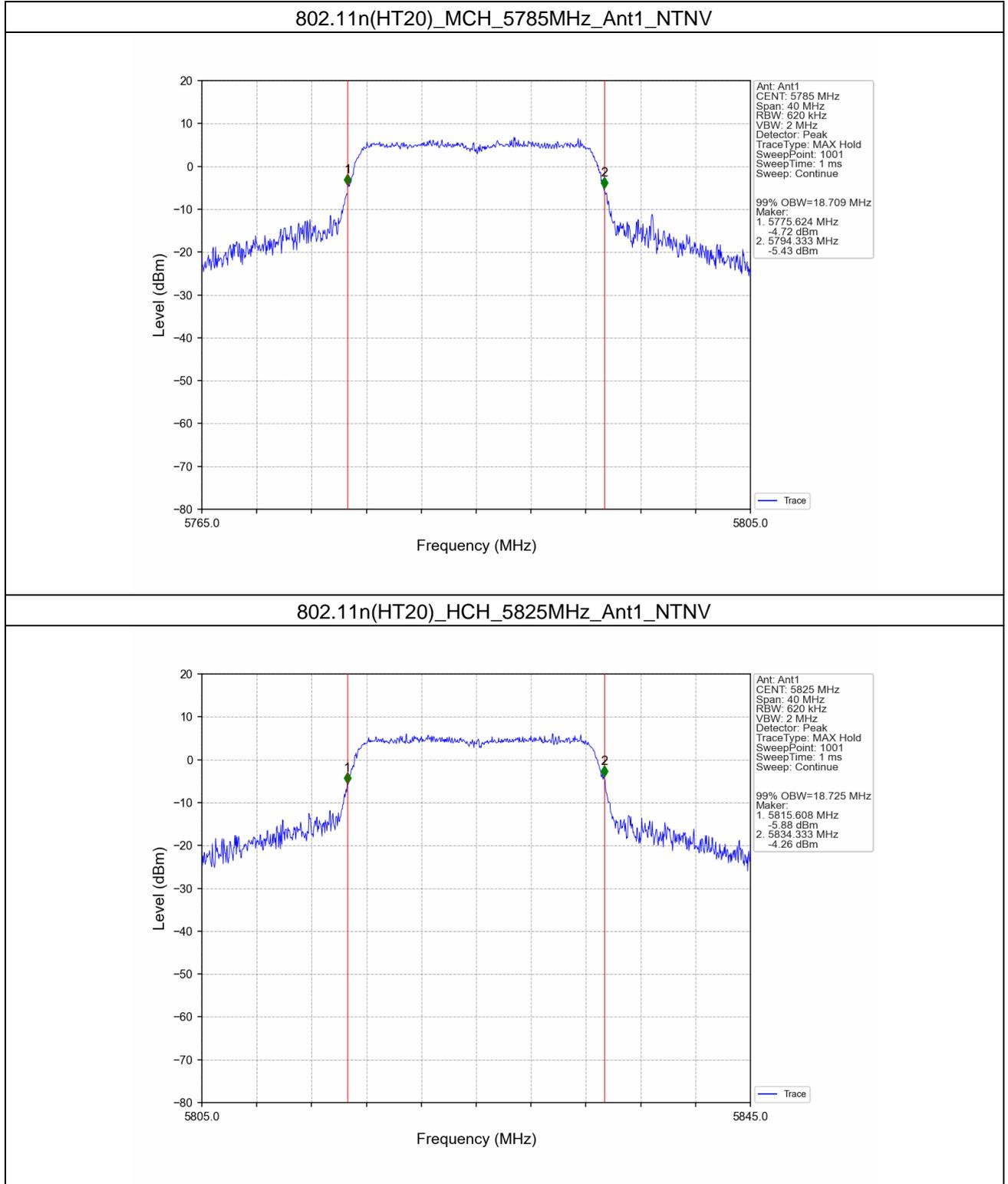


802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV

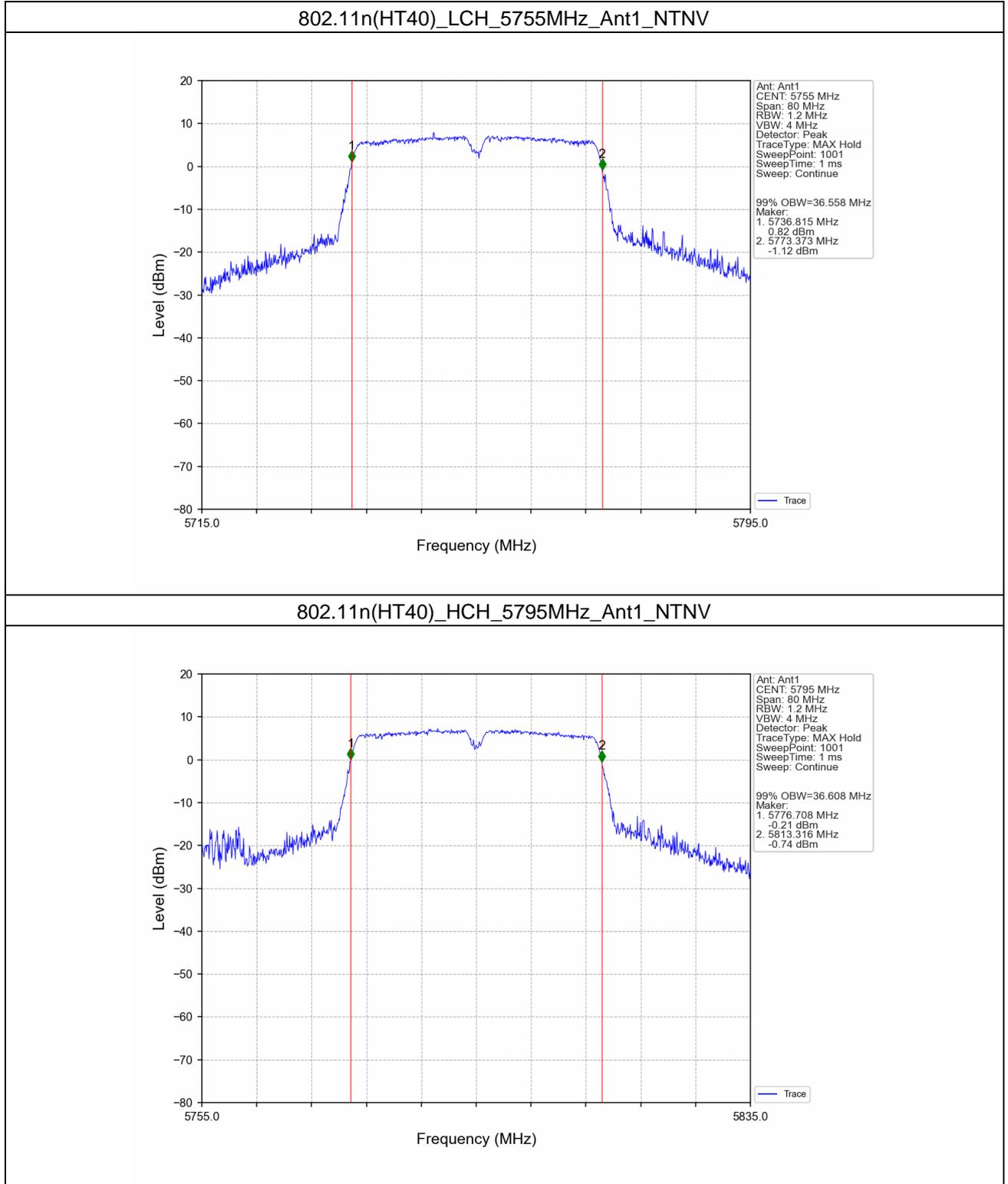


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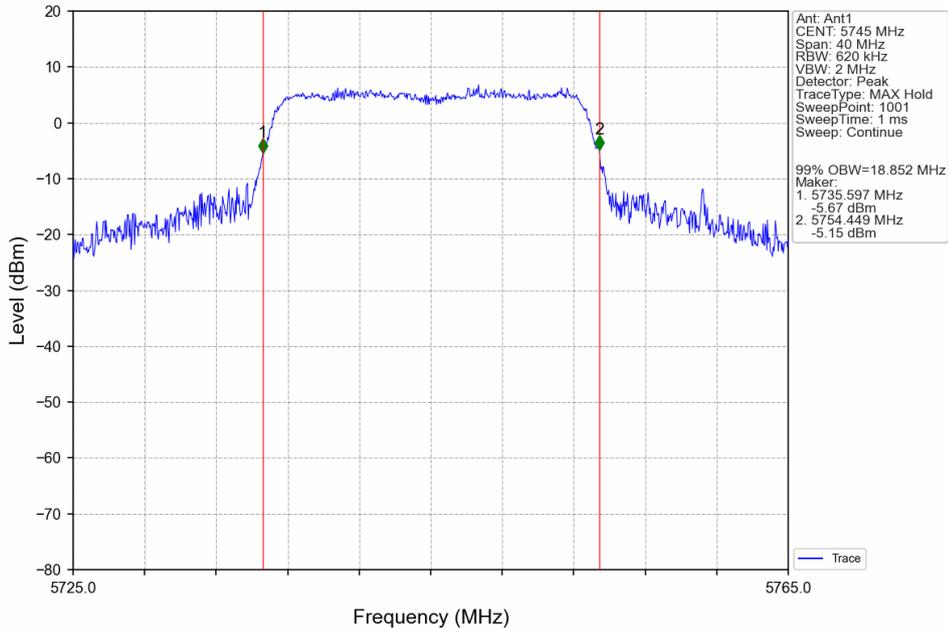
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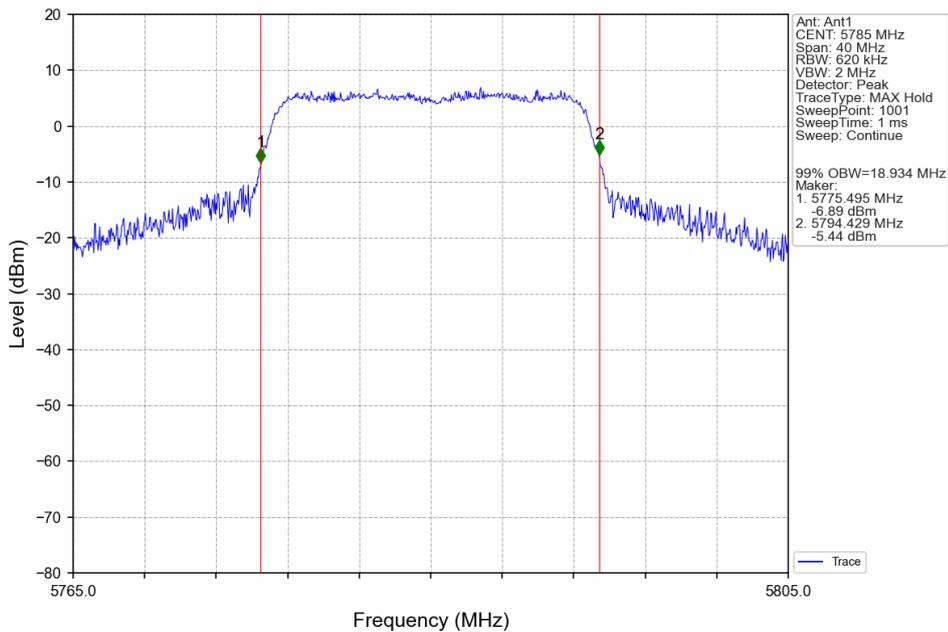
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



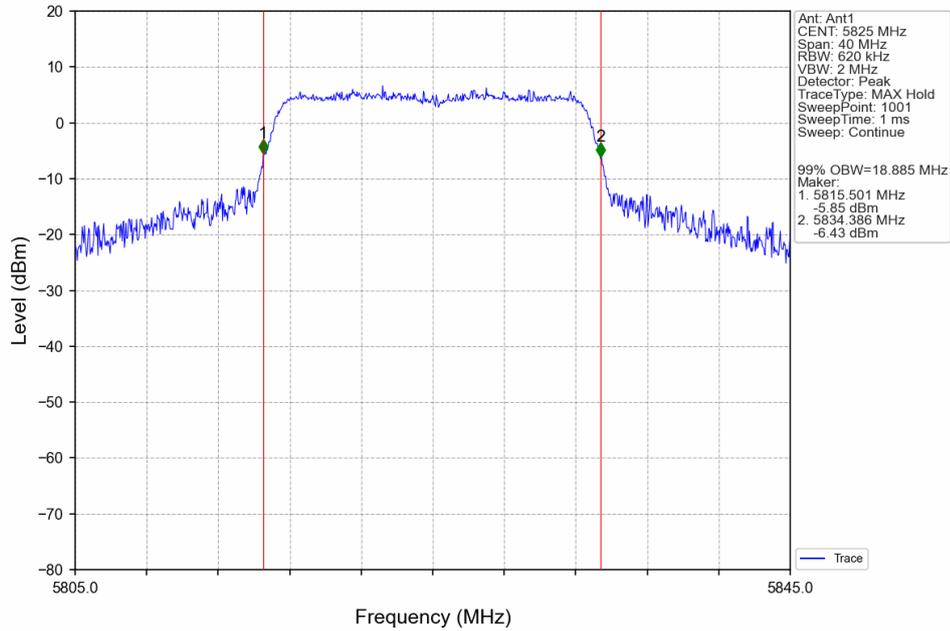
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



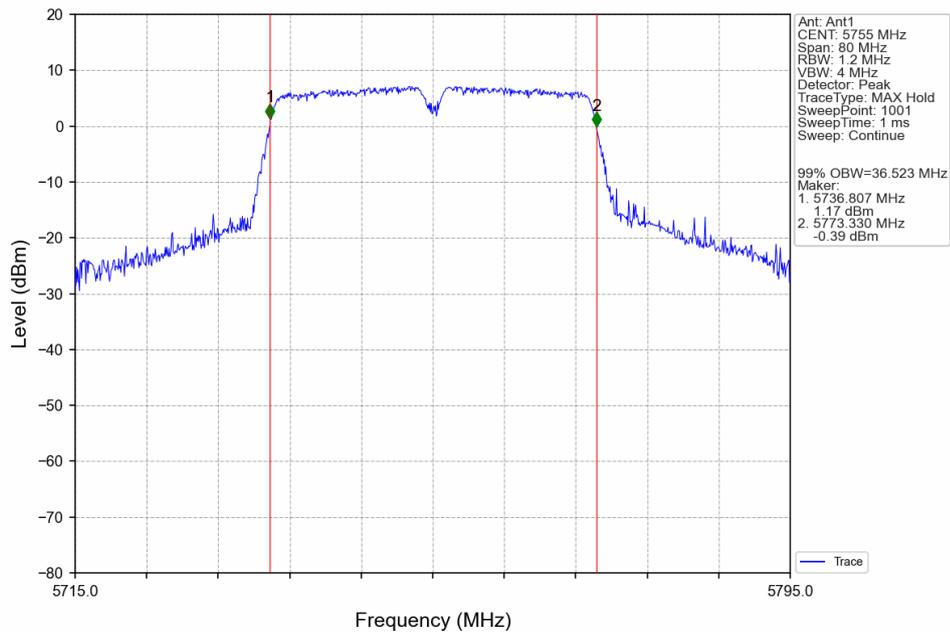
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV

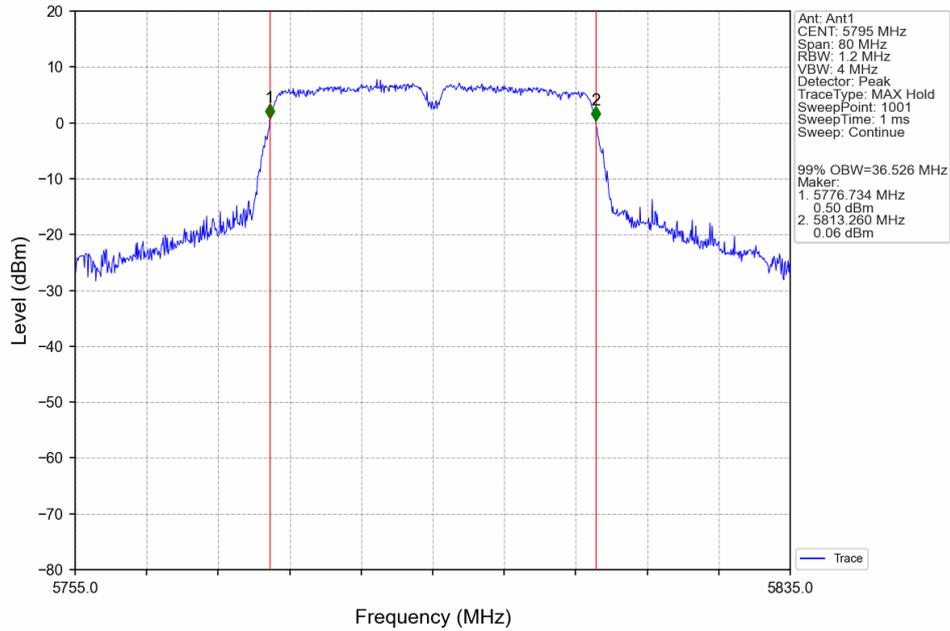


802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV

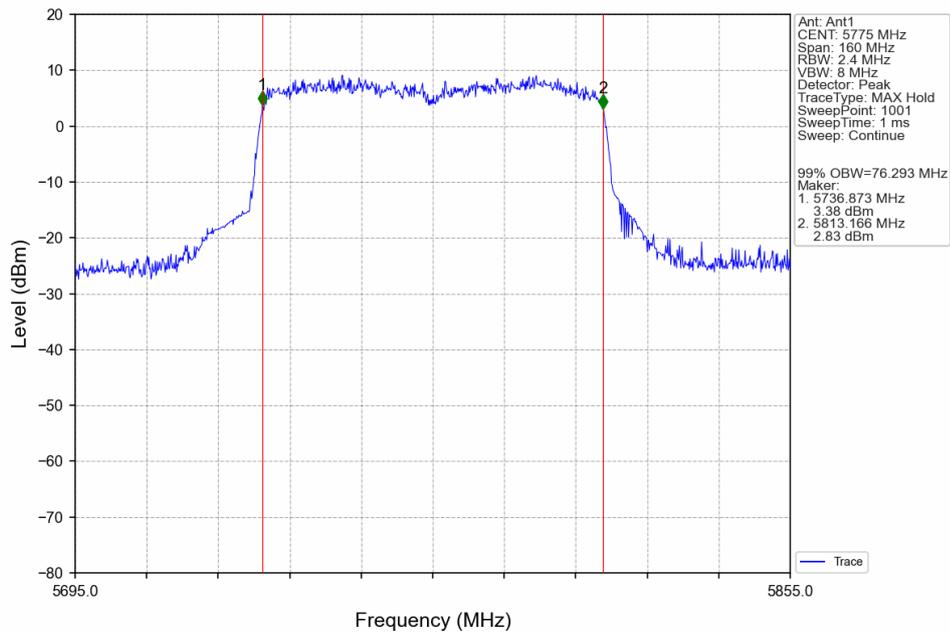


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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



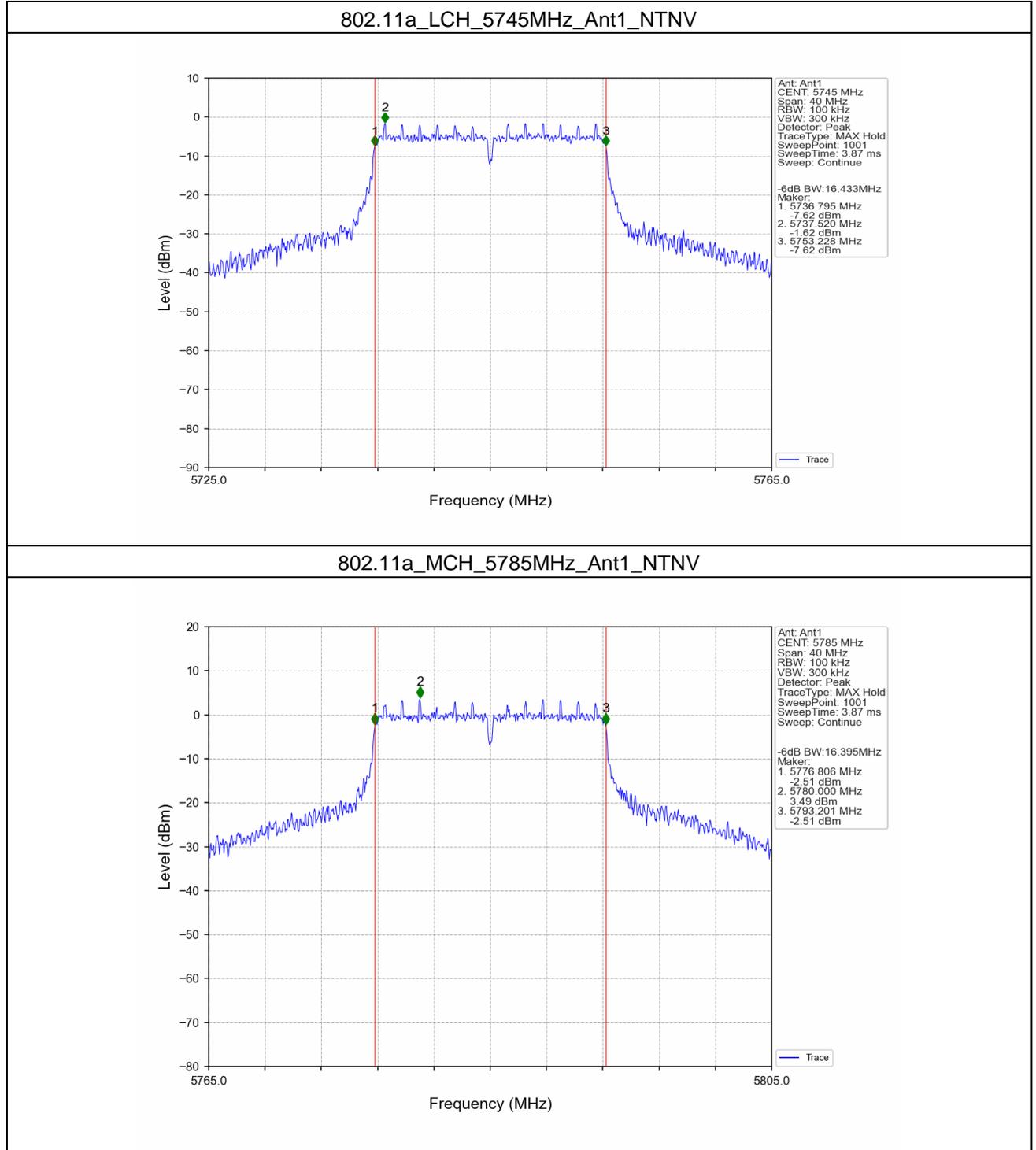
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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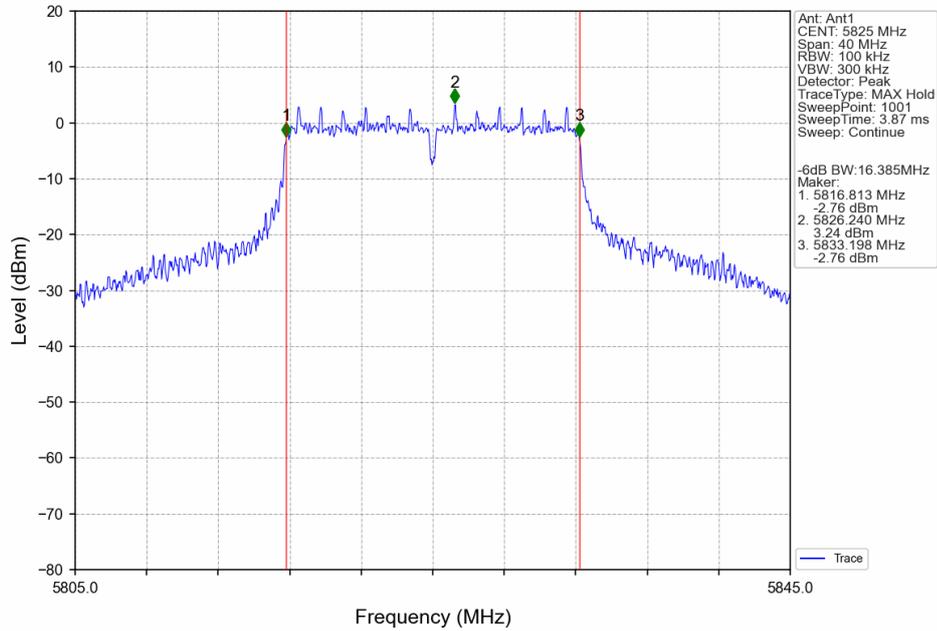
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### 2.2.2 6dB BW

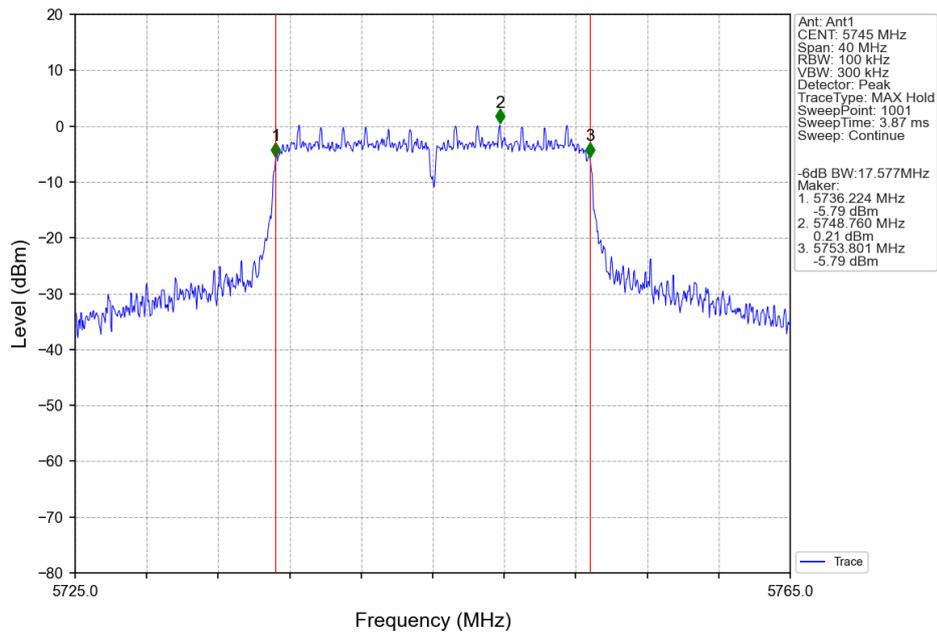


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802.11a\_HCH\_5825MHz\_Ant1\_NTNV

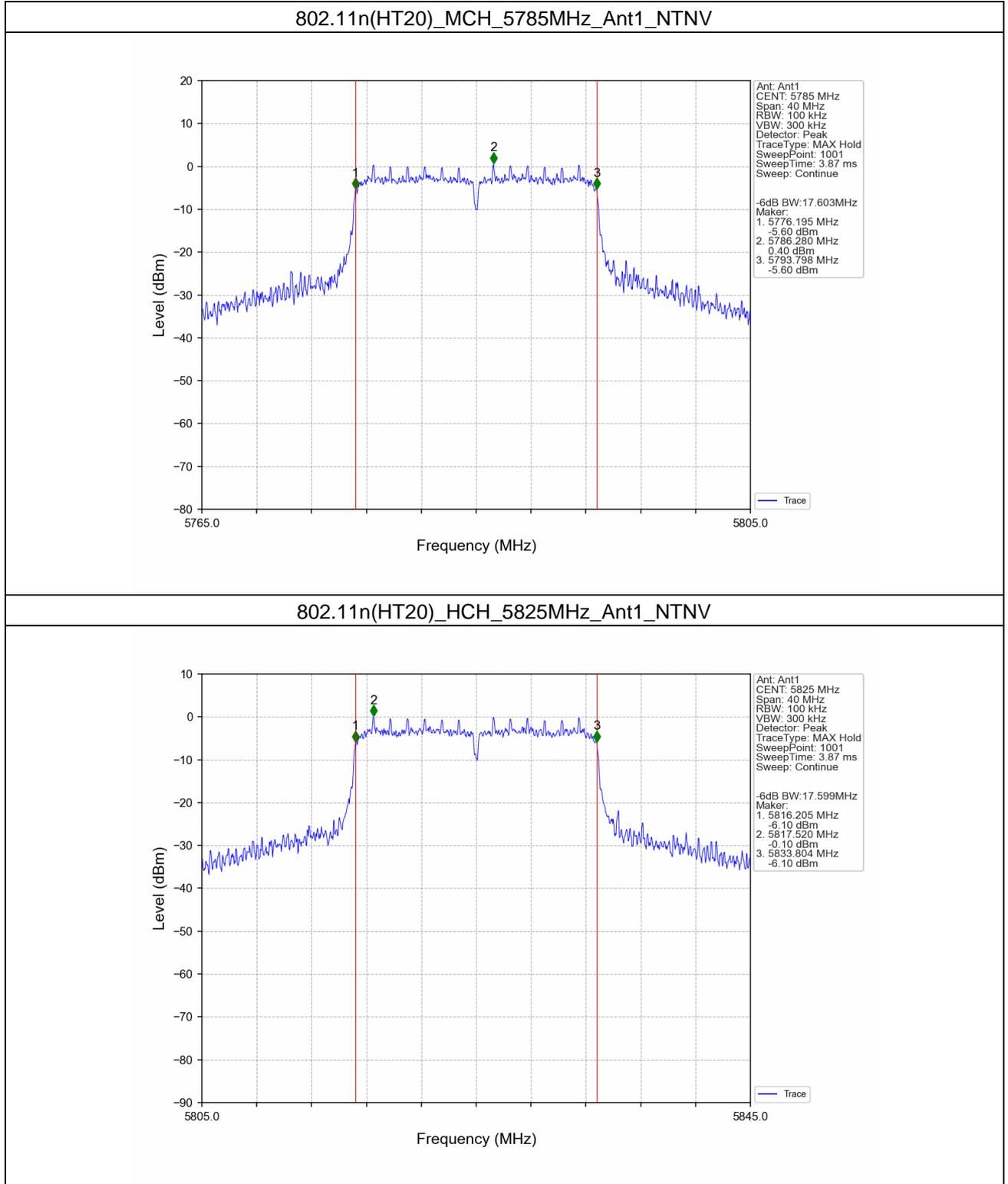


802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV

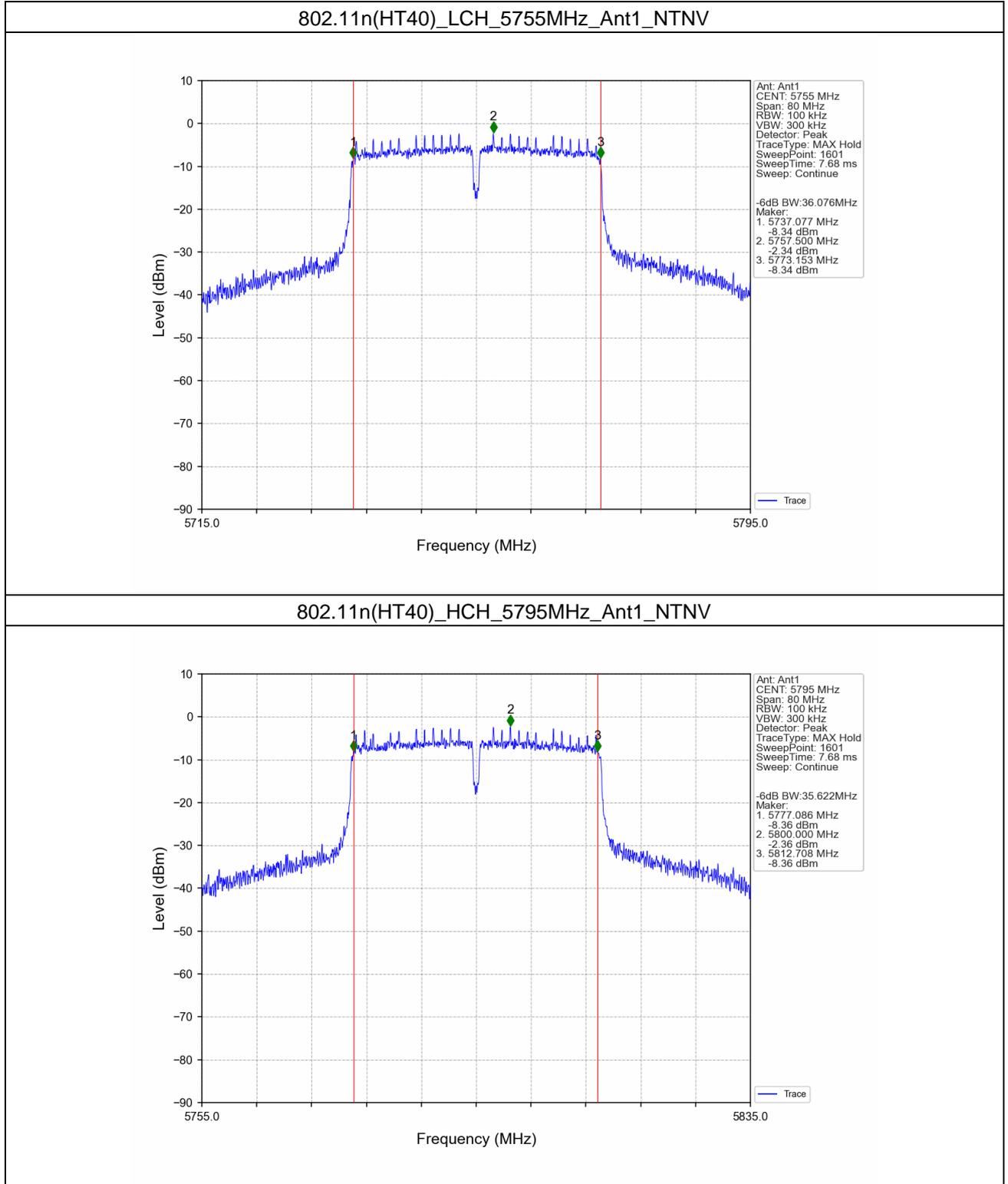


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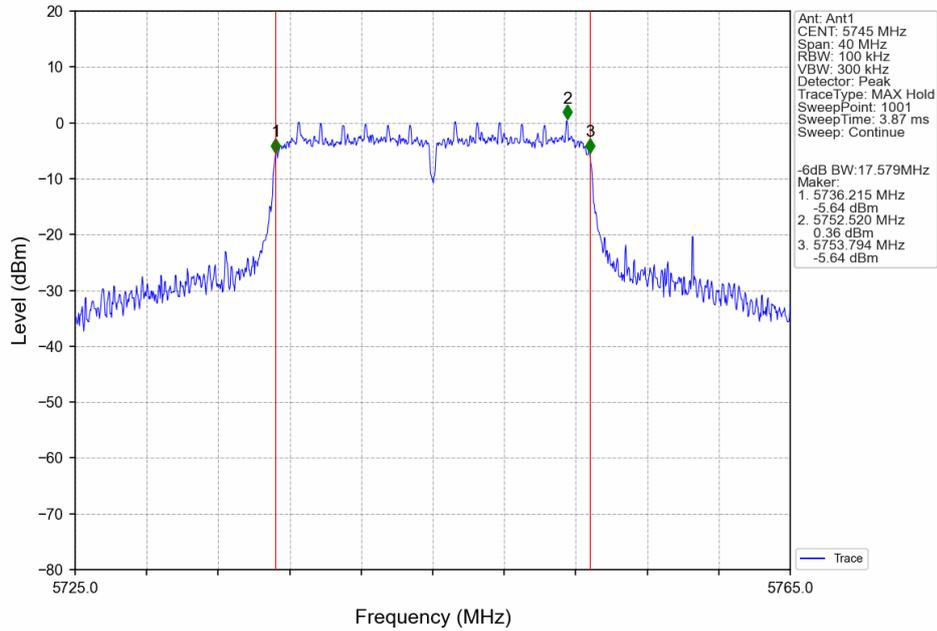
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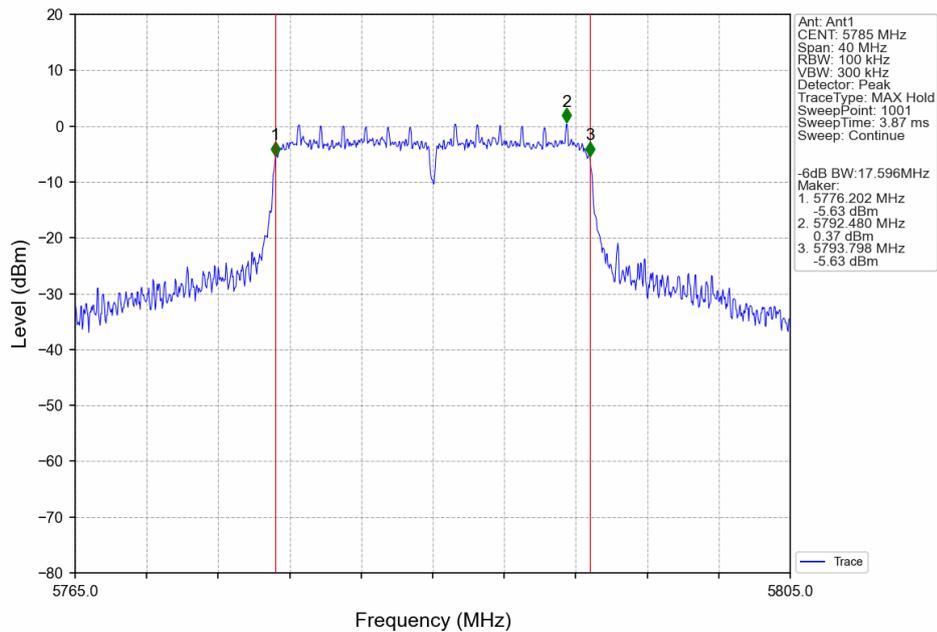
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



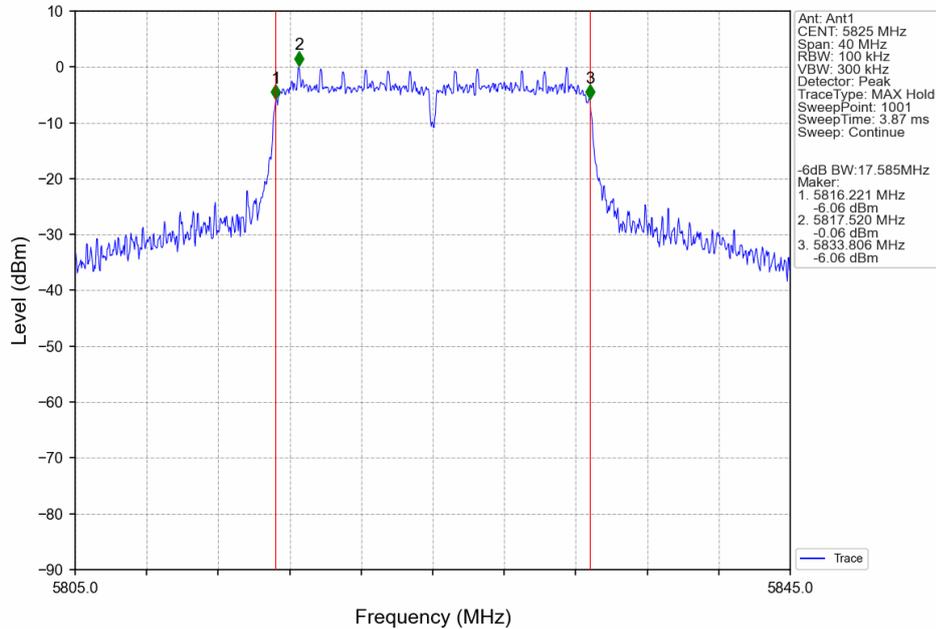
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



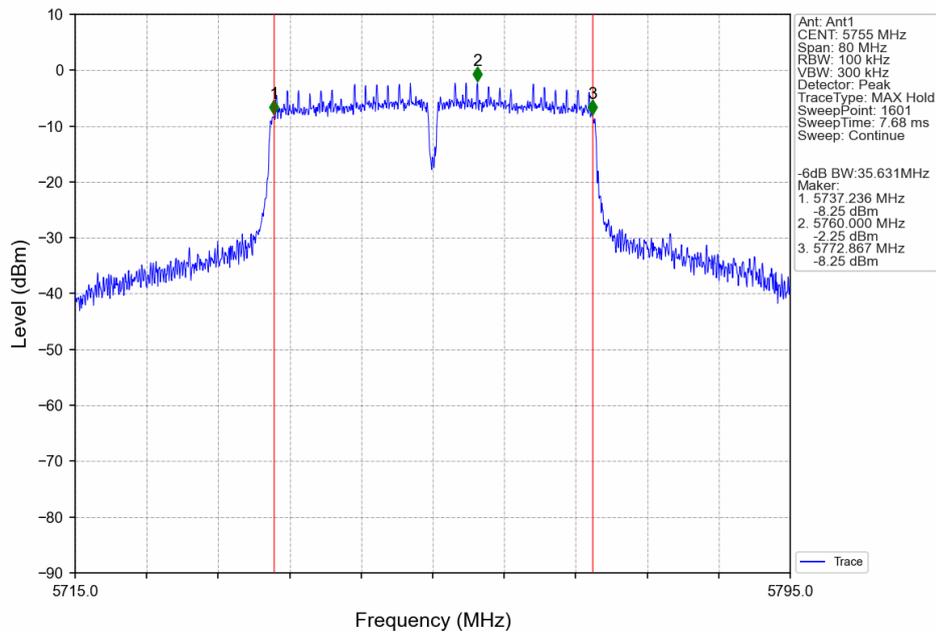
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



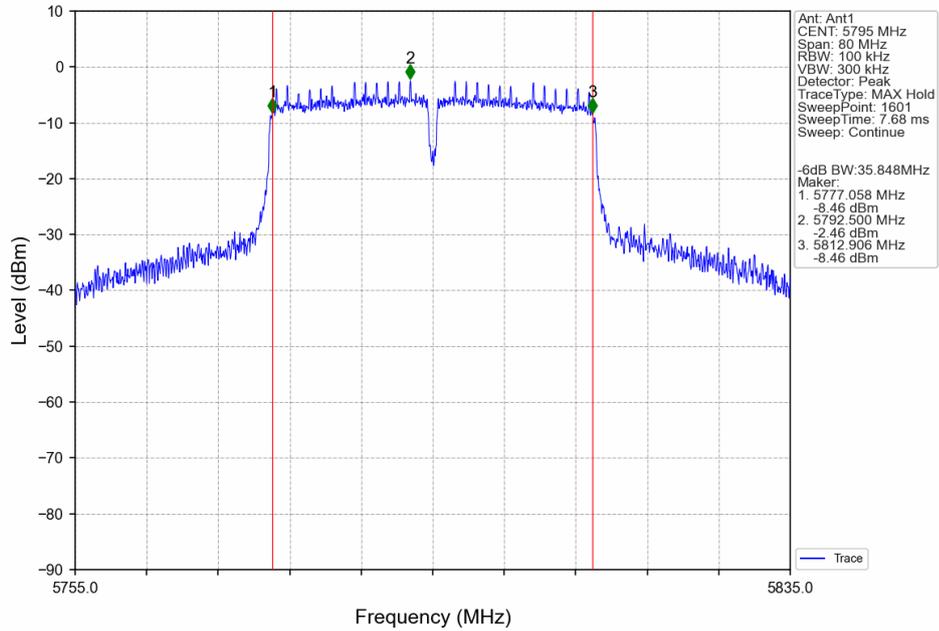
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



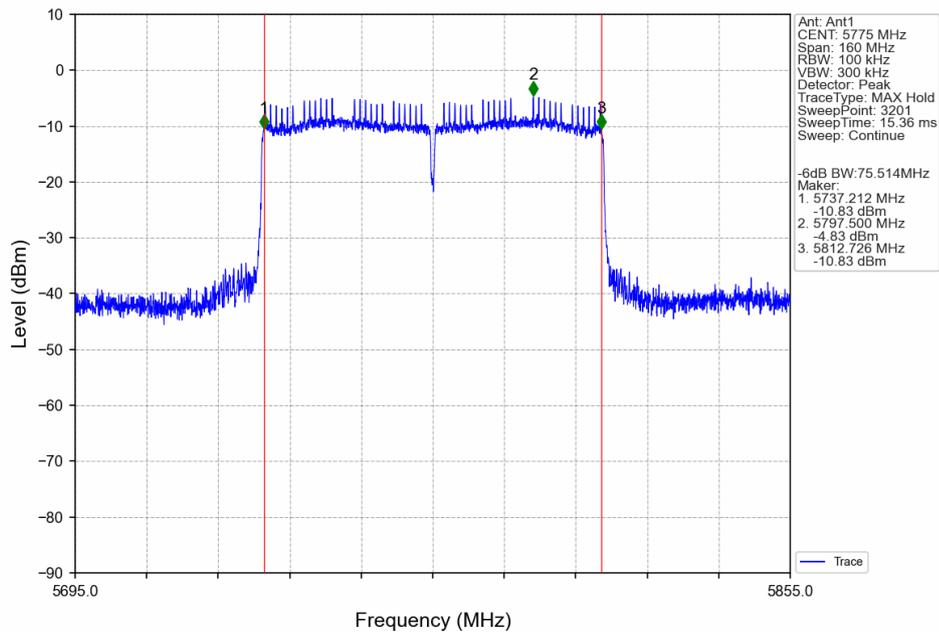
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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### 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	5745	14.80	<=30	Pass
		5785	14.67	<=30	Pass
		5825	14.17	<=30	Pass
802.11n (HT20)	SISO	5745	12.09	<=30	Pass
		5785	12.07	<=30	Pass
		5825	11.62	<=30	Pass
802.11n (HT40)	SISO	5755	11.86	<=30	Pass
		5795	11.80	<=30	Pass
802.11ac (VHT20)	SISO	5745	11.97	<=30	Pass
		5785	12.07	<=30	Pass
		5825	11.59	<=30	Pass
802.11ac (VHT40)	SISO	5755	12.05	<=30	Pass
		5795	11.92	<=30	Pass
802.11ac (VHT80)	SISO	5775	11.79	<=30	Pass



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## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	0.58	<=30	Pass
		5785	0.55	<=30	Pass
		5825	-0.07	<=30	Pass
802.11n (HT20)	SISO	5745	-2.31	<=30	Pass
		5785	-2.36	<=30	Pass
		5825	-2.77	<=30	Pass
802.11n (HT40)	SISO	5755	-5.24	<=30	Pass
		5795	-5.35	<=30	Pass
802.11ac (VHT20)	SISO	5745	-2.30	<=30	Pass
		5785	-2.25	<=30	Pass
		5825	-2.67	<=30	Pass
802.11ac (VHT40)	SISO	5755	-5.14	<=30	Pass
		5795	-5.13	<=30	Pass
802.11ac (VHT80)	SISO	5775	-8.14	<=30	Pass

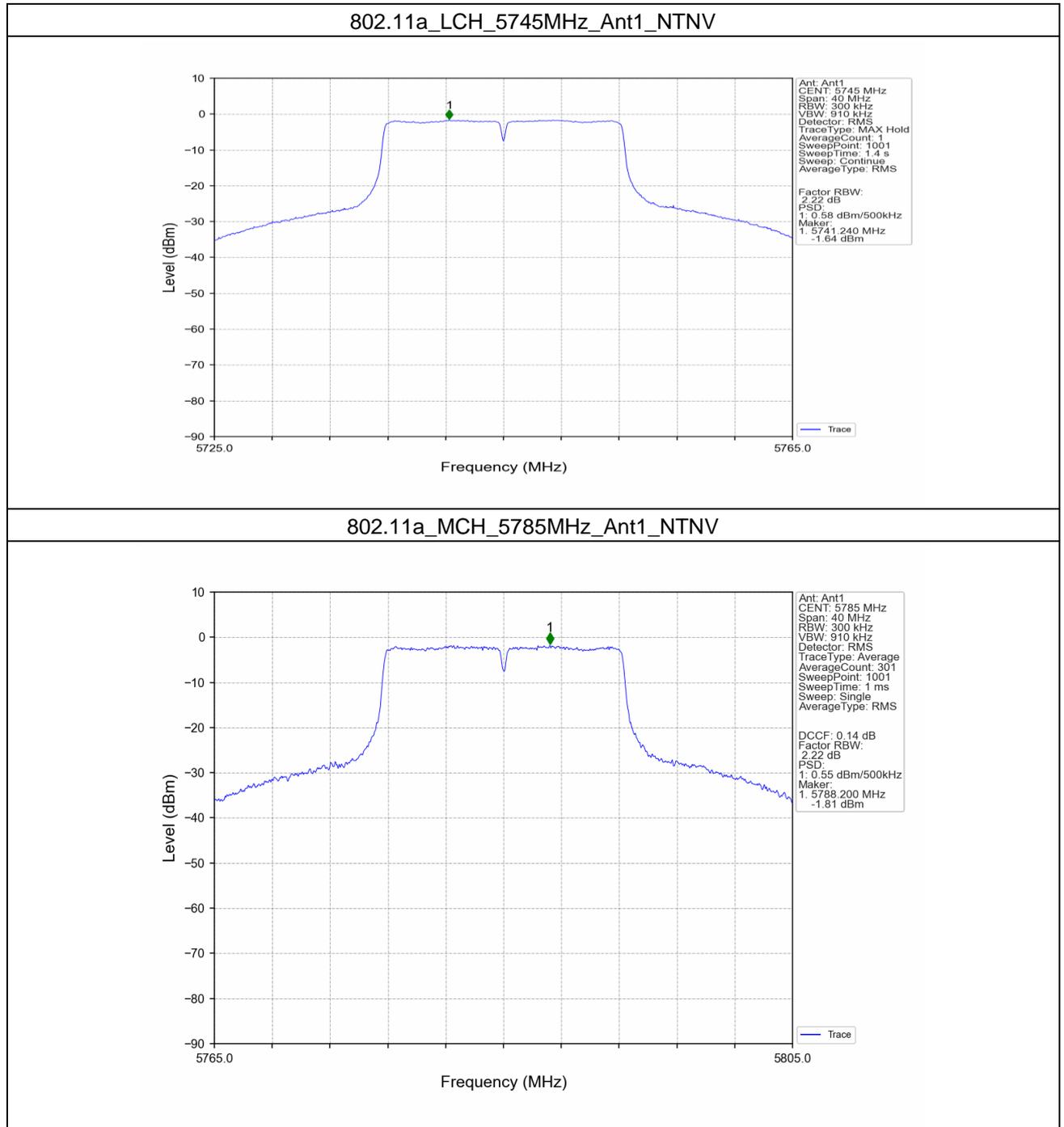


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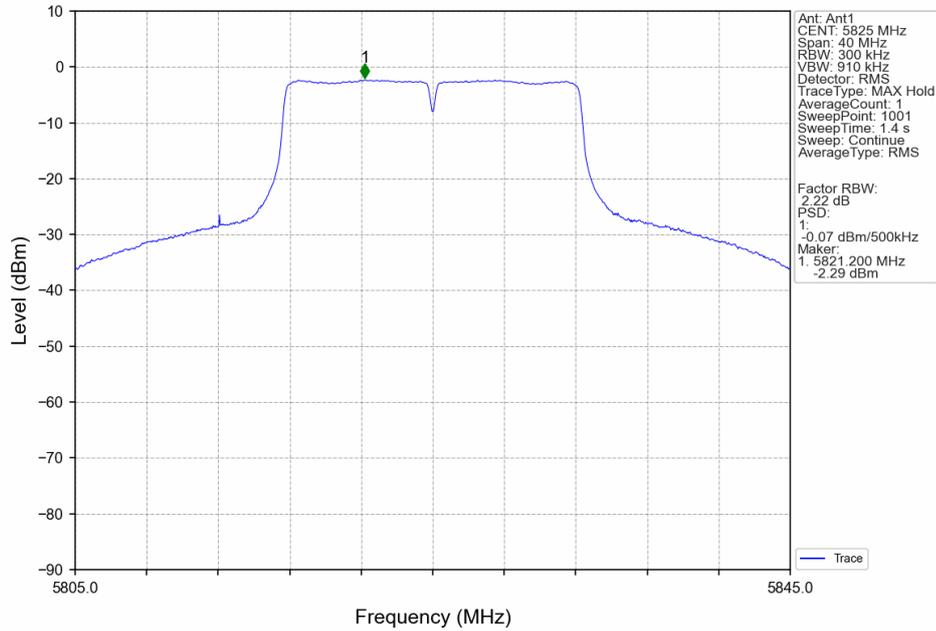
### 4.2 Test Graph

#### 4.2.1 PSD-Band3

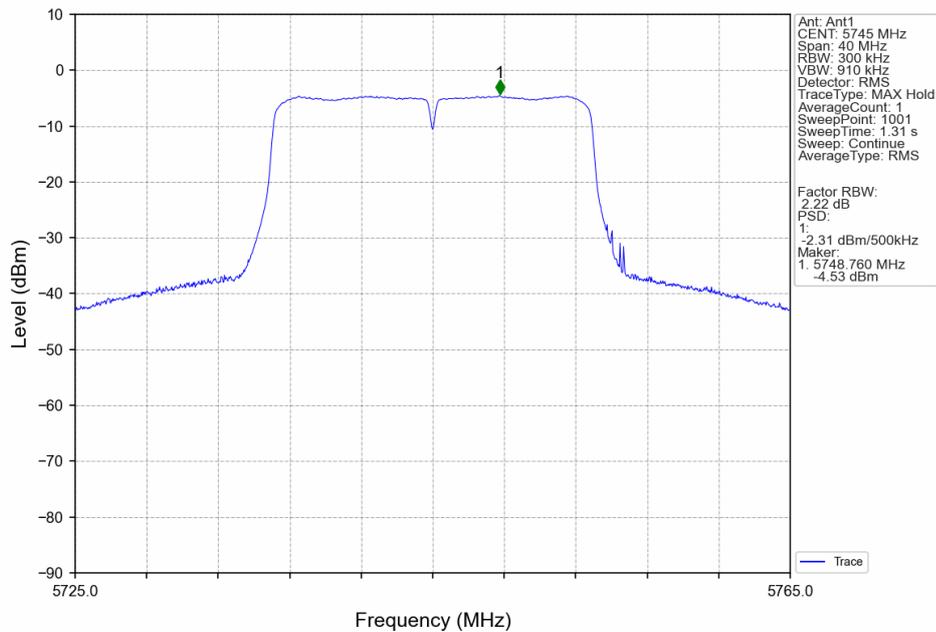


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802.11a\_HCH\_5825MHz\_Ant1\_NTNV

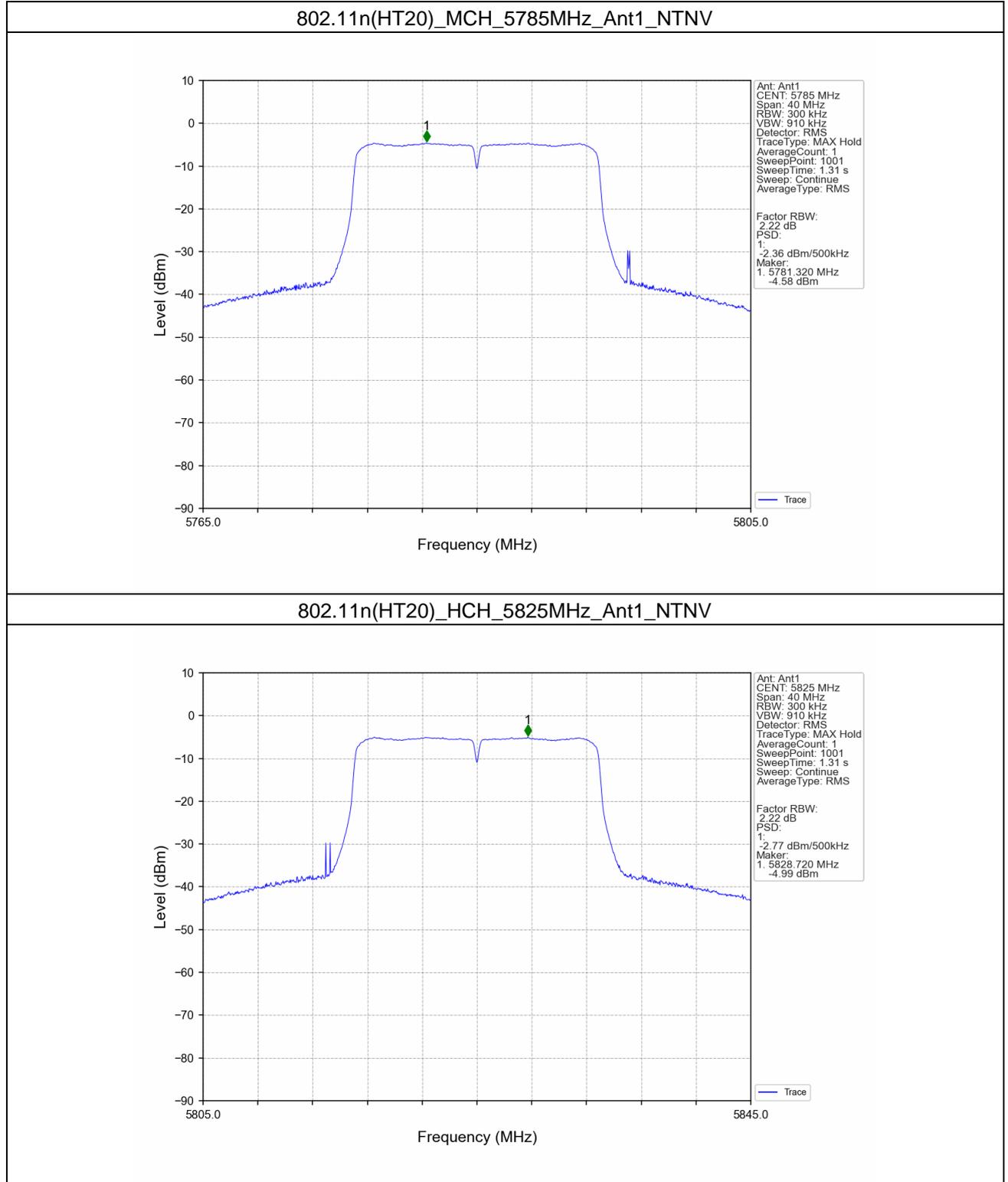


802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



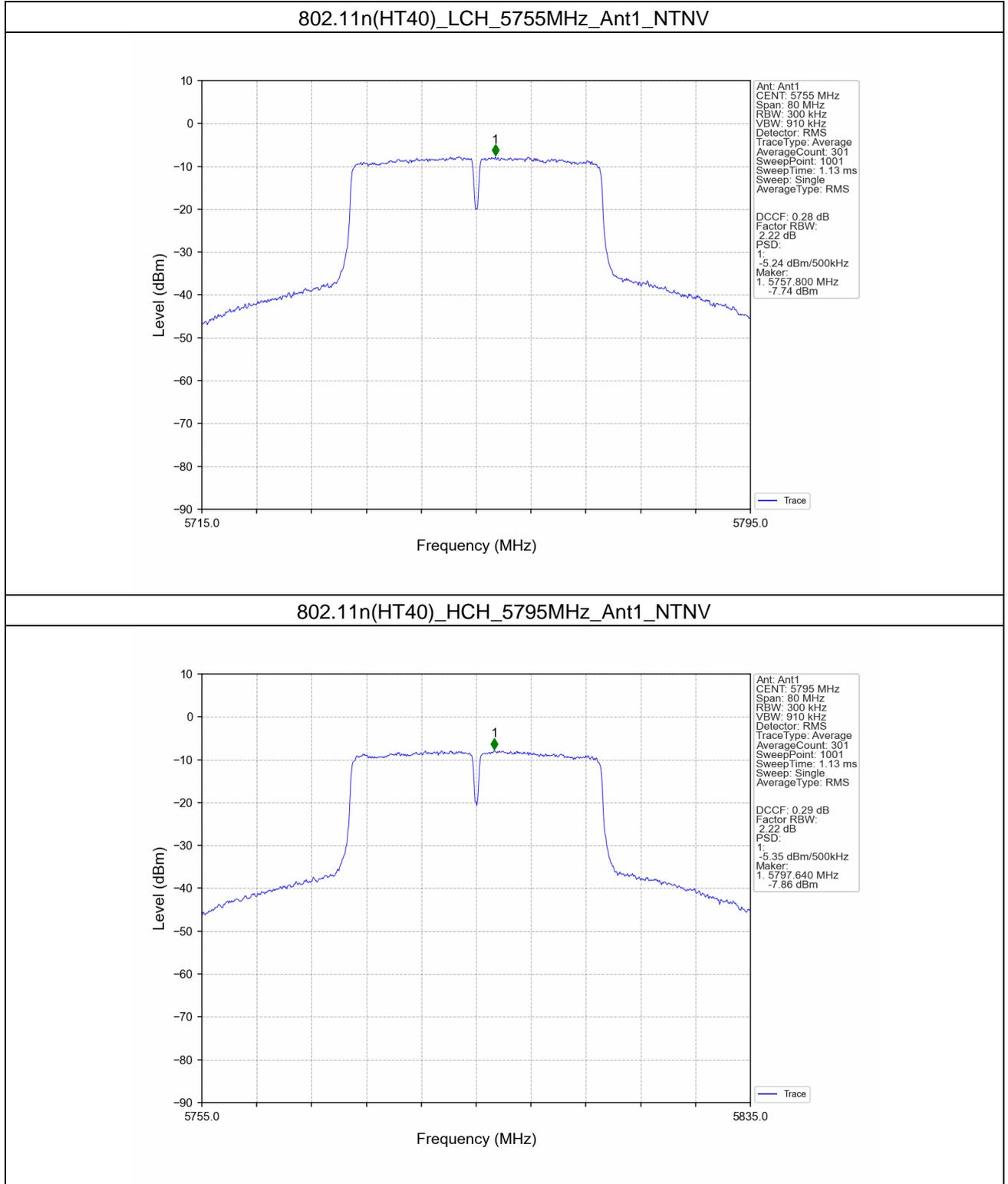
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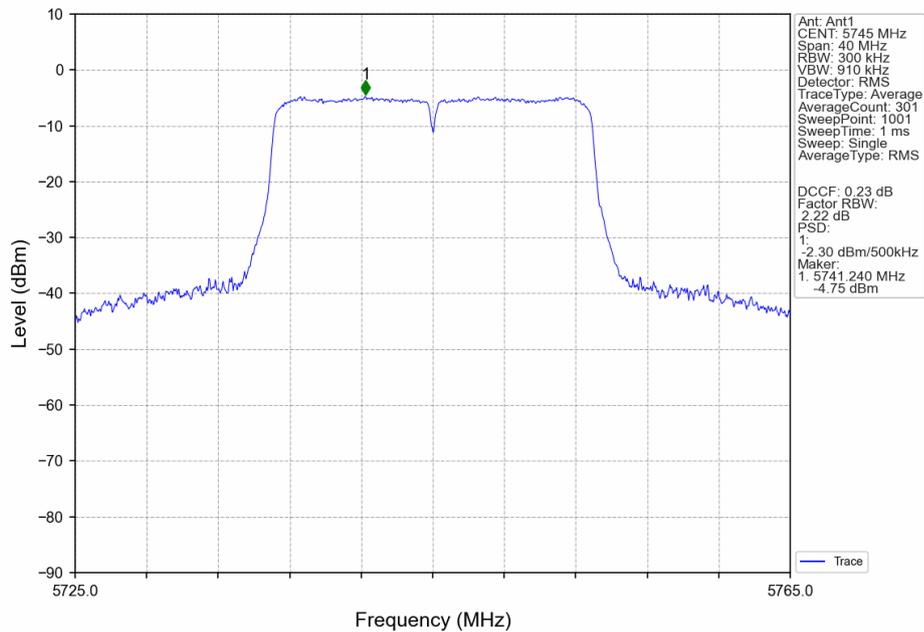
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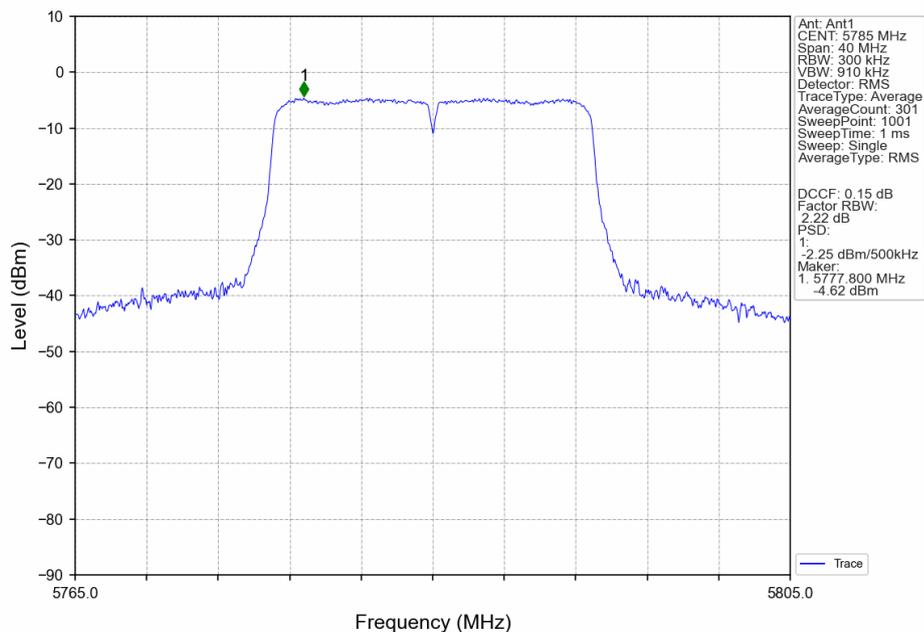


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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



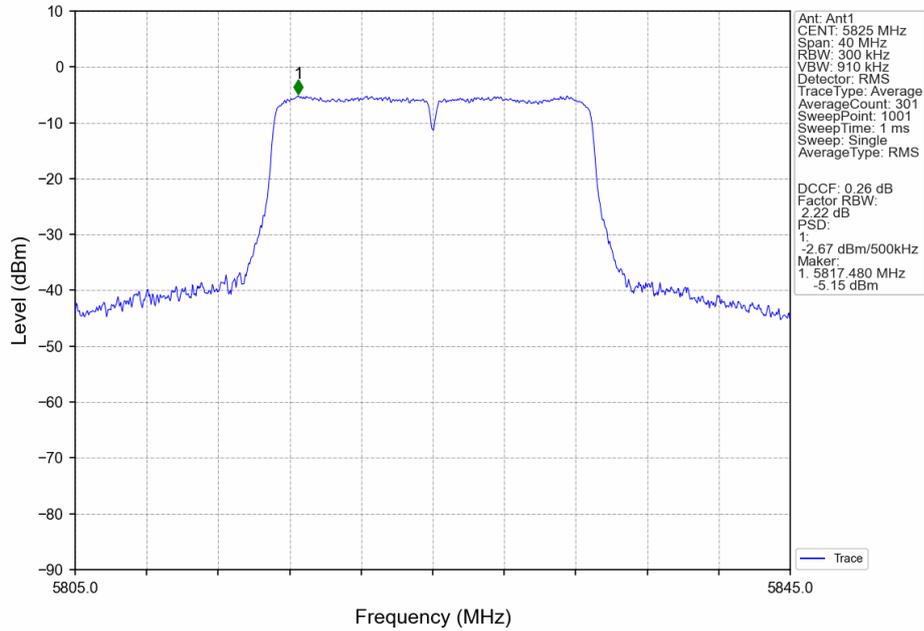
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



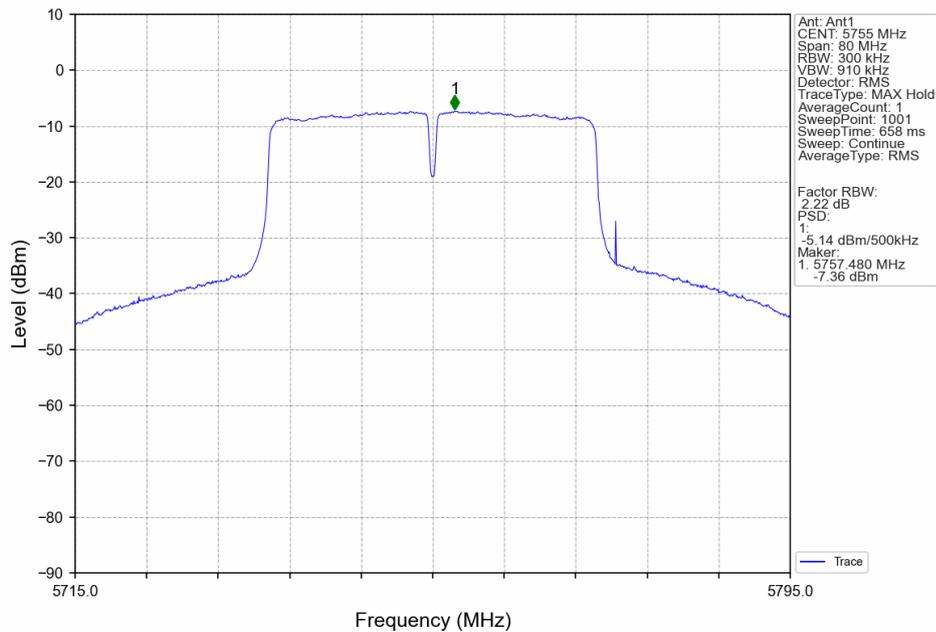
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



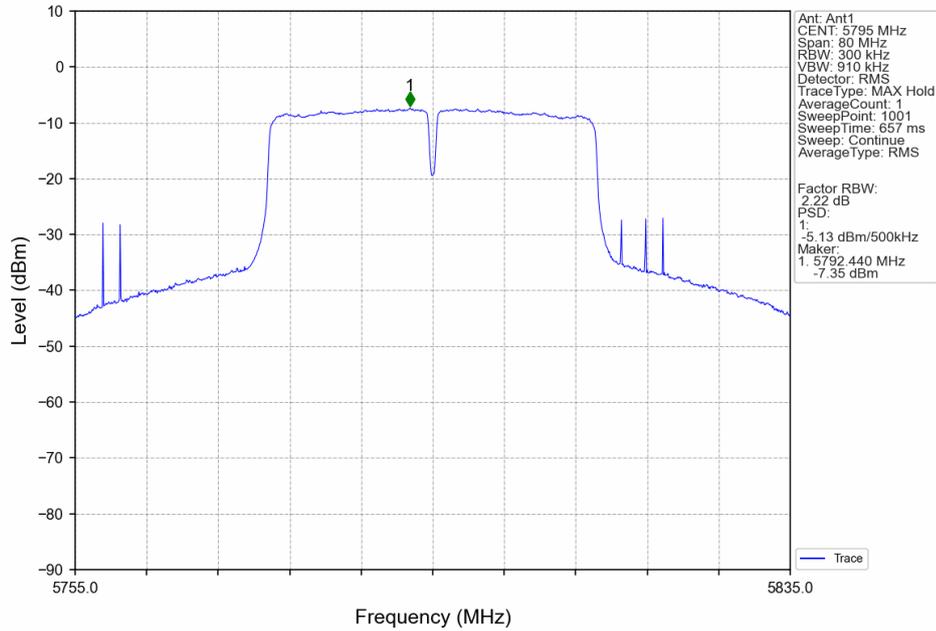
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



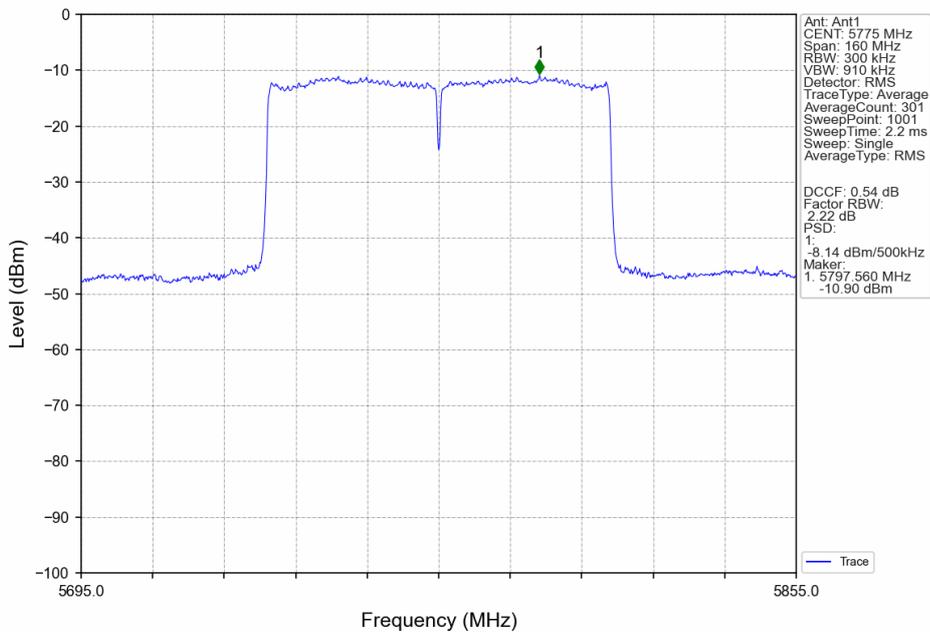
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
802.11a	SISO	5745	20	6.44	5745.000	5725 to 5850	Pass	
				7.16	5745.040	5725 to 5850	Pass	
				8.36	5745.020	5725 to 5850	Pass	
			0	7.16	5745.040	5725 to 5850	Pass	
				5	7.16	5745.060	5725 to 5850	Pass
					10	7.16	5745.060	5725 to 5850
				15	7.16	5745.020	5725 to 5850	Pass
				25	7.16	5745.040	5725 to 5850	Pass
				30	7.16	5745.020	5725 to 5850	Pass
				35	7.16	5745.060	5725 to 5850	Pass
		40	7.16	5745.040	5725 to 5850	Pass		
		5785	20	6.44	5785.040	5725 to 5850	Pass	
				7.16	5785.040	5725 to 5850	Pass	
				8.36	5785.040	5725 to 5850	Pass	
			0	7.16	5784.980	5725 to 5850	Pass	
				5	7.16	5785.000	5725 to 5850	Pass
					10	7.16	5785.040	5725 to 5850
				15	7.16	5785.060	5725 to 5850	Pass
				25	7.16	5785.020	5725 to 5850	Pass
				30	7.16	5785.020	5725 to 5850	Pass
				35	7.16	5784.940	5725 to 5850	Pass
		40	7.16	5785.020	5725 to 5850	Pass		
		5825	20	6.44	5825.000	5725 to 5850	Pass	
				7.16	5825.020	5725 to 5850	Pass	
				8.36	5825.020	5725 to 5850	Pass	
			0	7.16	5825.040	5725 to 5850	Pass	
				5	7.16	5825.040	5725 to 5850	Pass
					10	7.16	5825.000	5725 to 5850
				15	7.16	5825.000	5725 to 5850	Pass
				25	7.16	5825.020	5725 to 5850	Pass



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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Report No.: SZCR240600249805

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			30	7.16	5825.020	5725 to 5850	Pass		
			35	7.16	5825.020	5725 to 5850	Pass		
			40	7.16	5825.020	5725 to 5850	Pass		
802.11n (HT20)	SISO	5745	20	6.44	5745.000	5725 to 5850	Pass		
				7.16	5745.000	5725 to 5850	Pass		
				8.36	5745.020	5725 to 5850	Pass		
			0	7.16	5745.000	5725 to 5850	Pass		
			5	7.16	5744.960	5725 to 5850	Pass		
			10	7.16	5744.980	5725 to 5850	Pass		
			15	7.16	5745.000	5725 to 5850	Pass		
			25	7.16	5745.020	5725 to 5850	Pass		
			30	7.16	5745.000	5725 to 5850	Pass		
			35	7.16	5745.020	5725 to 5850	Pass		
			40	7.16	5745.000	5725 to 5850	Pass		
			5785	20	6.44	5785.020	5725 to 5850	Pass	
		7.16			5784.980	5725 to 5850	Pass		
		8.36			5785.020	5725 to 5850	Pass		
		0		7.16	5784.960	5725 to 5850	Pass		
		5		7.16	5785.040	5725 to 5850	Pass		
		10		7.16	5785.000	5725 to 5850	Pass		
		15		7.16	5785.020	5725 to 5850	Pass		
		25		7.16	5785.040	5725 to 5850	Pass		
		30		7.16	5784.960	5725 to 5850	Pass		
		35		7.16	5784.960	5725 to 5850	Pass		
		40		7.16	5785.020	5725 to 5850	Pass		
		5825		20	6.44	5825.000	5725 to 5850	Pass	
			7.16		5824.980	5725 to 5850	Pass		
			8.36		5825.060	5725 to 5850	Pass		
			0	7.16	5825.000	5725 to 5850	Pass		
			5	7.16	5825.020	5725 to 5850	Pass		
			10	7.16	5824.960	5725 to 5850	Pass		
			15	7.16	5825.000	5725 to 5850	Pass		
			25	7.16	5825.000	5725 to 5850	Pass		
			30	7.16	5824.980	5725 to 5850	Pass		
			35	7.16	5824.940	5725 to 5850	Pass		
			40	7.16	5825.000	5725 to 5850	Pass		
			802.11n (HT40)	SISO	5755	20	6.44	5755.040	5725 to 5850
		7.16					5755.000	5725 to 5850	Pass
		8.36					5755.080	5725 to 5850	Pass
0	7.16	5755.040					5725 to 5850	Pass	



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			5	7.16	5754.960	5725 to 5850	Pass			
			10	7.16	5755.040	5725 to 5850	Pass			
			15	7.16	5755.000	5725 to 5850	Pass			
			25	7.16	5755.080	5725 to 5850	Pass			
			30	7.16	5755.040	5725 to 5850	Pass			
			35	7.16	5755.040	5725 to 5850	Pass			
			40	7.16	5755.040	5725 to 5850	Pass			
		5795	20	6.44	5795.040	5725 to 5850	Pass			
				7.16	5795.040	5725 to 5850	Pass			
				8.36	5795.000	5725 to 5850	Pass			
			0	7.16	5794.960	5725 to 5850	Pass			
			5	7.16	5795.040	5725 to 5850	Pass			
			10	7.16	5794.960	5725 to 5850	Pass			
			15	7.16	5795.040	5725 to 5850	Pass			
			25	7.16	5795.040	5725 to 5850	Pass			
			30	7.16	5794.960	5725 to 5850	Pass			
			35	7.16	5795.040	5725 to 5850	Pass			
			40	7.16	5795.040	5725 to 5850	Pass			
			802.11ac (VHT20)	SISO	5745	20	6.44	5745.000	5725 to 5850	Pass
							7.16	5744.980	5725 to 5850	Pass
8.36	5745.000	5725 to 5850					Pass			
0	7.16	5744.980				5725 to 5850	Pass			
5	7.16	5745.040				5725 to 5850	Pass			
10	7.16	5744.960				5725 to 5850	Pass			
15	7.16	5745.040				5725 to 5850	Pass			
25	7.16	5745.020				5725 to 5850	Pass			
30	7.16	5744.980				5725 to 5850	Pass			
35	7.16	5744.980			5725 to 5850	Pass				
5785	20	6.44	5784.980	5725 to 5850	Pass					
		7.16	5784.980	5725 to 5850	Pass					
		8.36	5784.960	5725 to 5850	Pass					
	0	7.16	5785.000	5725 to 5850	Pass					
	5	7.16	5784.980	5725 to 5850	Pass					
	10	7.16	5784.980	5725 to 5850	Pass					
	15	7.16	5785.000	5725 to 5850	Pass					
	25	7.16	5785.000	5725 to 5850	Pass					
	30	7.16	5785.000	5725 to 5850	Pass					
35	7.16	5784.980	5725 to 5850	Pass						
40	7.16	5784.940	5725 to 5850	Pass						



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		5825	20	6.44	5825.000	5725 to 5850	Pass		
				7.16	5824.960	5725 to 5850	Pass		
				8.36	5825.000	5725 to 5850	Pass		
			0	7.16	5825.020	5725 to 5850	Pass		
				5	5825.020	5725 to 5850	Pass		
			10	7.16	5825.000	5725 to 5850	Pass		
				15	5824.960	5725 to 5850	Pass		
			25	7.16	5824.980	5725 to 5850	Pass		
				30	5825.000	5725 to 5850	Pass		
			35	7.16	5825.000	5725 to 5850	Pass		
				40	5825.020	5725 to 5850	Pass		
802.11ac (VHT40)	SISO	5755	20	6.44	5755.080	5725 to 5850	Pass		
				7.16	5755.040	5725 to 5850	Pass		
				8.36	5755.040	5725 to 5850	Pass		
			0	7.16	5755.080	5725 to 5850	Pass		
				5	5755.040	5725 to 5850	Pass		
			10	7.16	5755.040	5725 to 5850	Pass		
				15	5755.040	5725 to 5850	Pass		
			25	7.16	5755.000	5725 to 5850	Pass		
				30	5755.040	5725 to 5850	Pass		
			35	7.16	5754.960	5725 to 5850	Pass		
				40	5755.040	5725 to 5850	Pass		
			5795	20	6.44	5795.000	5725 to 5850	Pass	
		7.16			5795.040	5725 to 5850	Pass		
		8.36			5795.000	5725 to 5850	Pass		
		0		7.16	5795.000	5725 to 5850	Pass		
				5	5795.000	5725 to 5850	Pass		
		10		7.16	5795.040	5725 to 5850	Pass		
				15	5795.000	5725 to 5850	Pass		
		25		7.16	5795.040	5725 to 5850	Pass		
				30	5795.040	5725 to 5850	Pass		
		35		7.16	5795.000	5725 to 5850	Pass		
				40	5795.000	5725 to 5850	Pass		
		802.11ac (VHT80)		SISO	5775	20	6.44	5775.000	5725 to 5850
			7.16				5775.000	5725 to 5850	Pass
8.36	5775.000		5725 to 5850				Pass		
0	7.16		5775.000			5725 to 5850	Pass		
	5		5775.000			5725 to 5850	Pass		
10	7.16		5775.000			5725 to 5850	Pass		
	15	5775.000	5725 to 5850	Pass					



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			25	7.16	5775.000	5725 to 5850	Pass
			30	7.16	5775.000	5725 to 5850	Pass
			35	7.16	5775.000	5725 to 5850	Pass
			40	7.16	5775.000	5725 to 5850	Pass

- End of the Report -



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